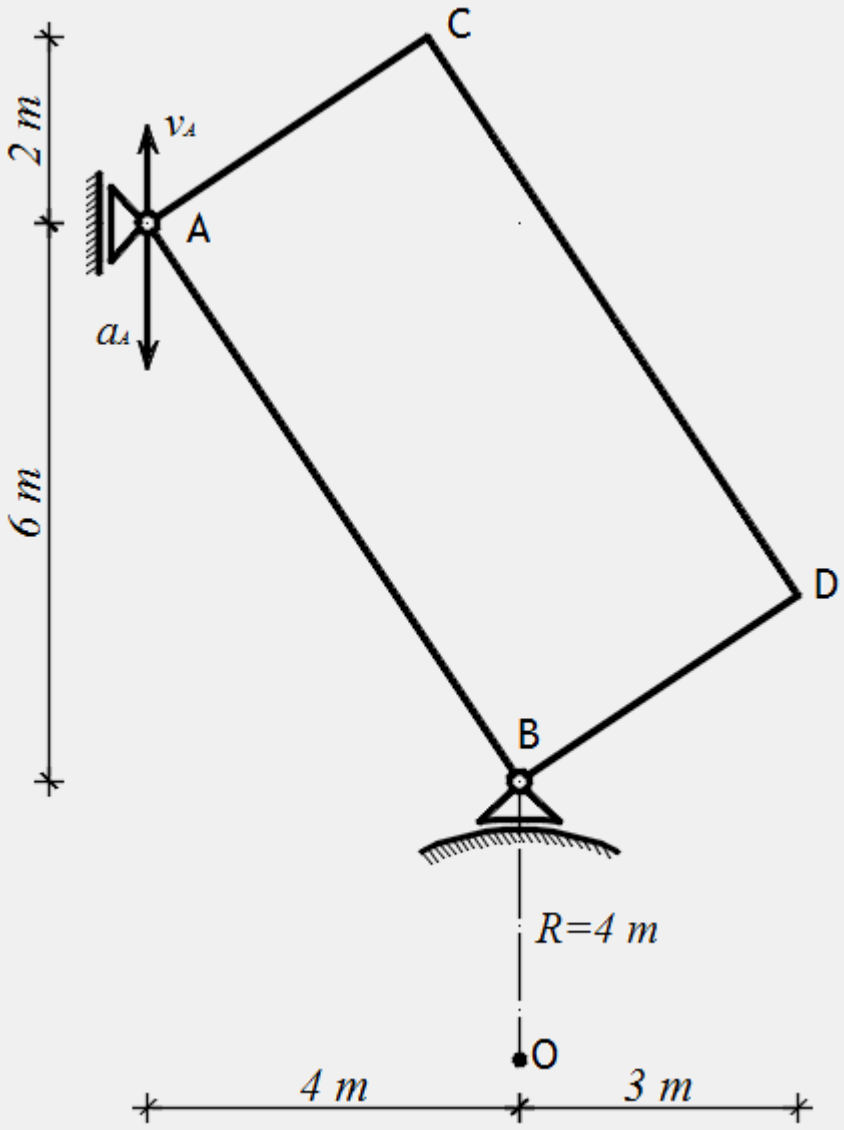
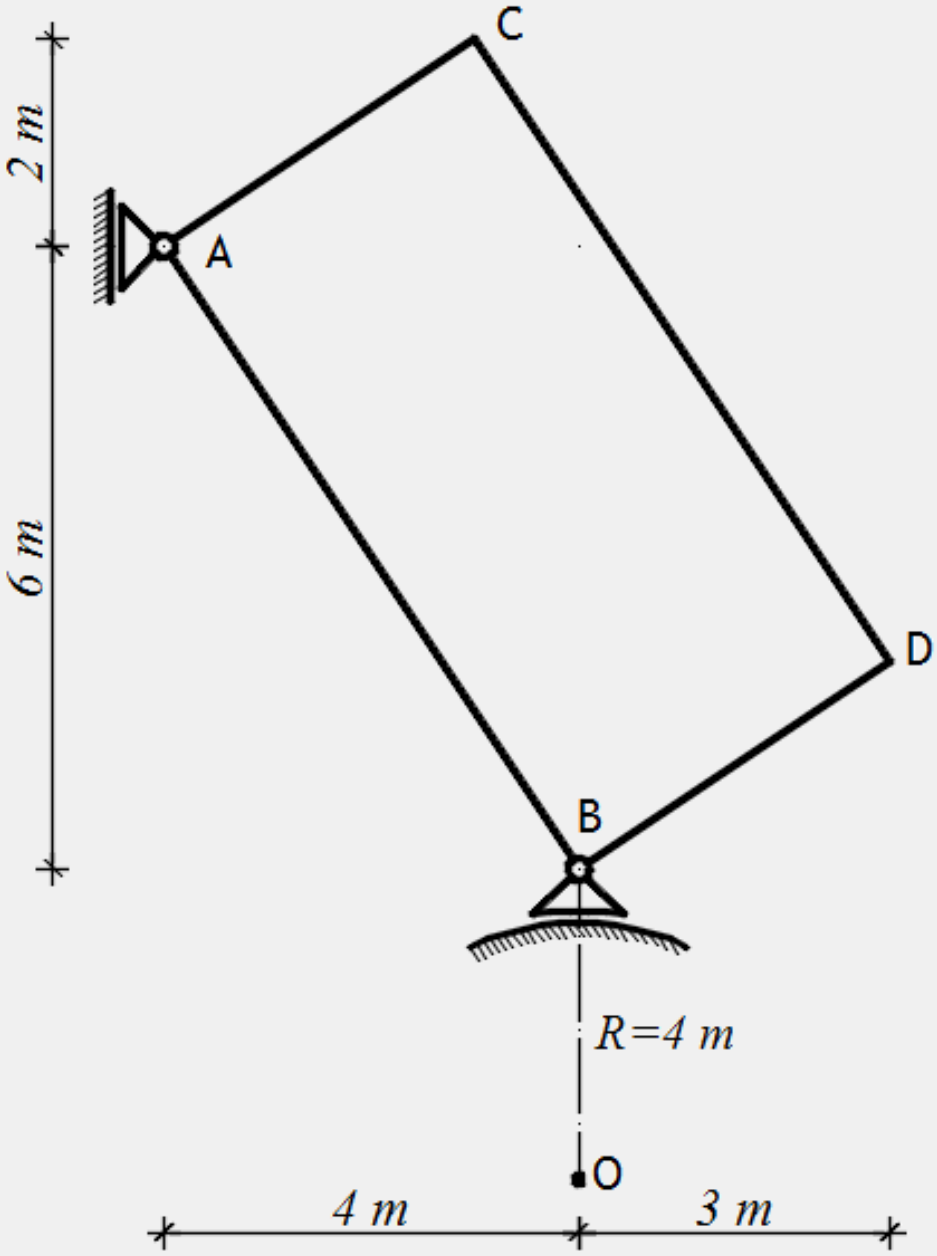
Grafoanalitičkim postupkom treba odrediti brzine i ubrzanja svih označenih točaka pravokutne ploče, kutnu brzinu i kutno ubrzanje ploče te kutnu brzinu i kutno ubrzanje klizača B oko točke O. Poznata je brzina i ubrzanje točke A.

$v_A = 4\ m/s$

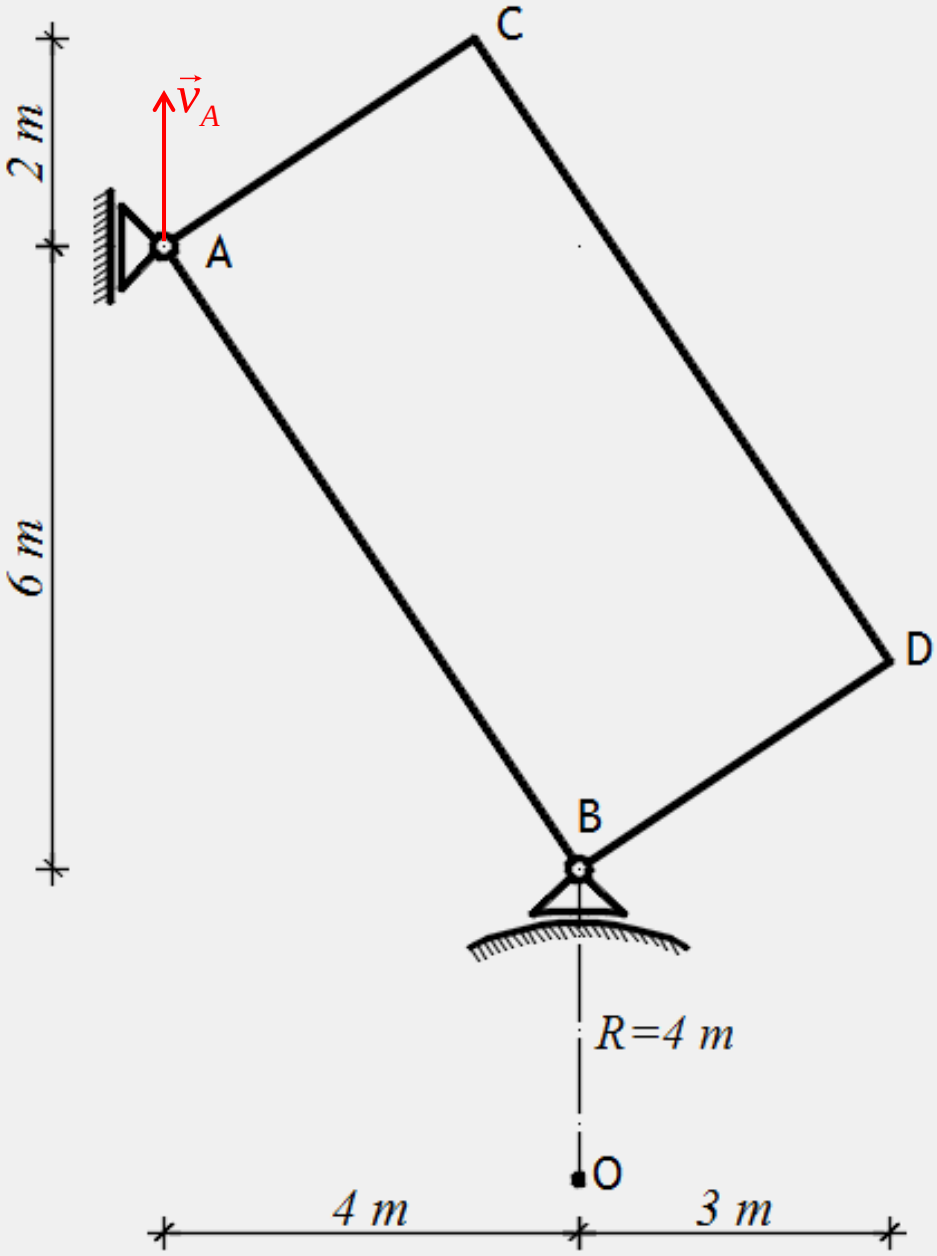
$a_A = 7\ m/s^2$



BRZINE

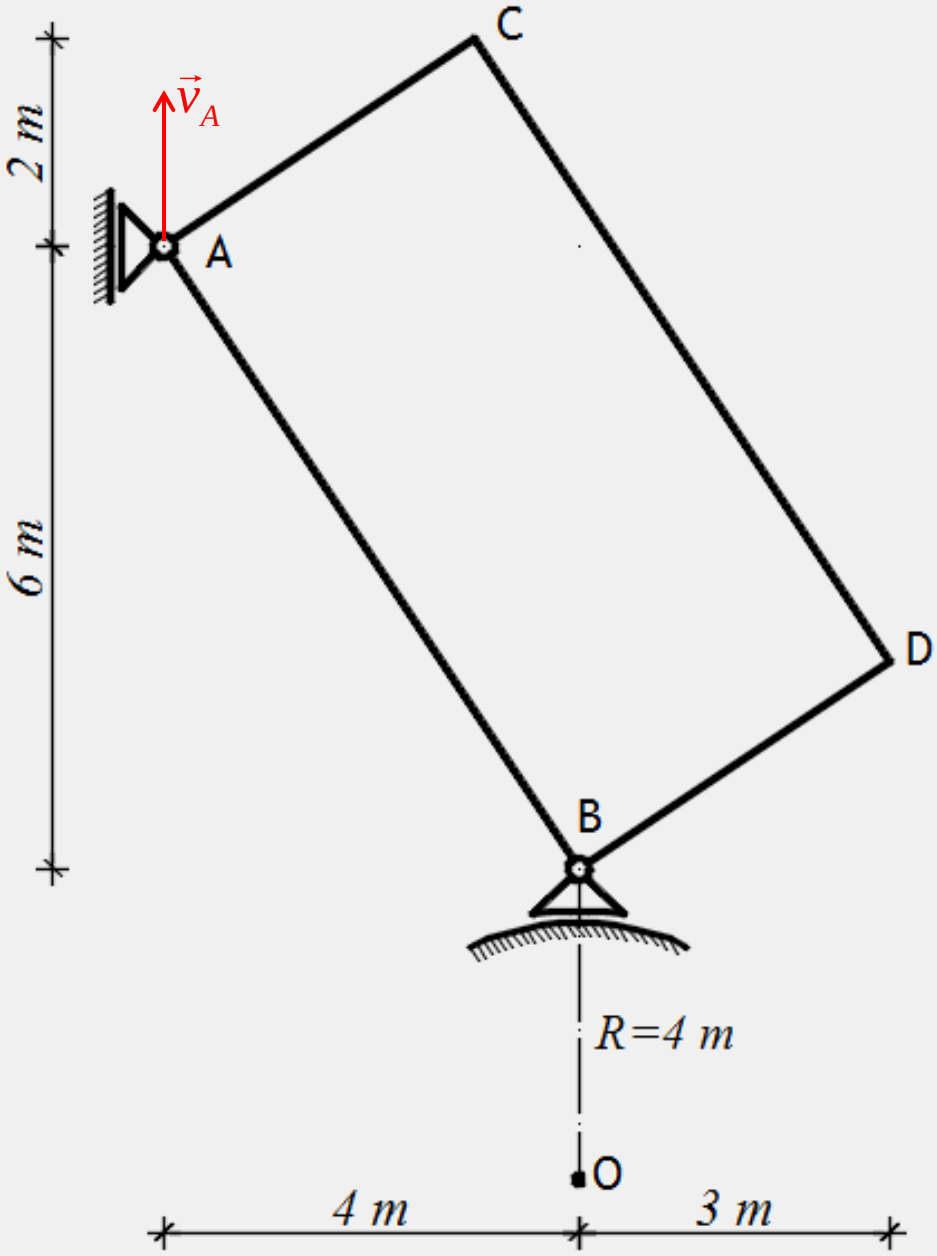


BRZINE



BRZINE

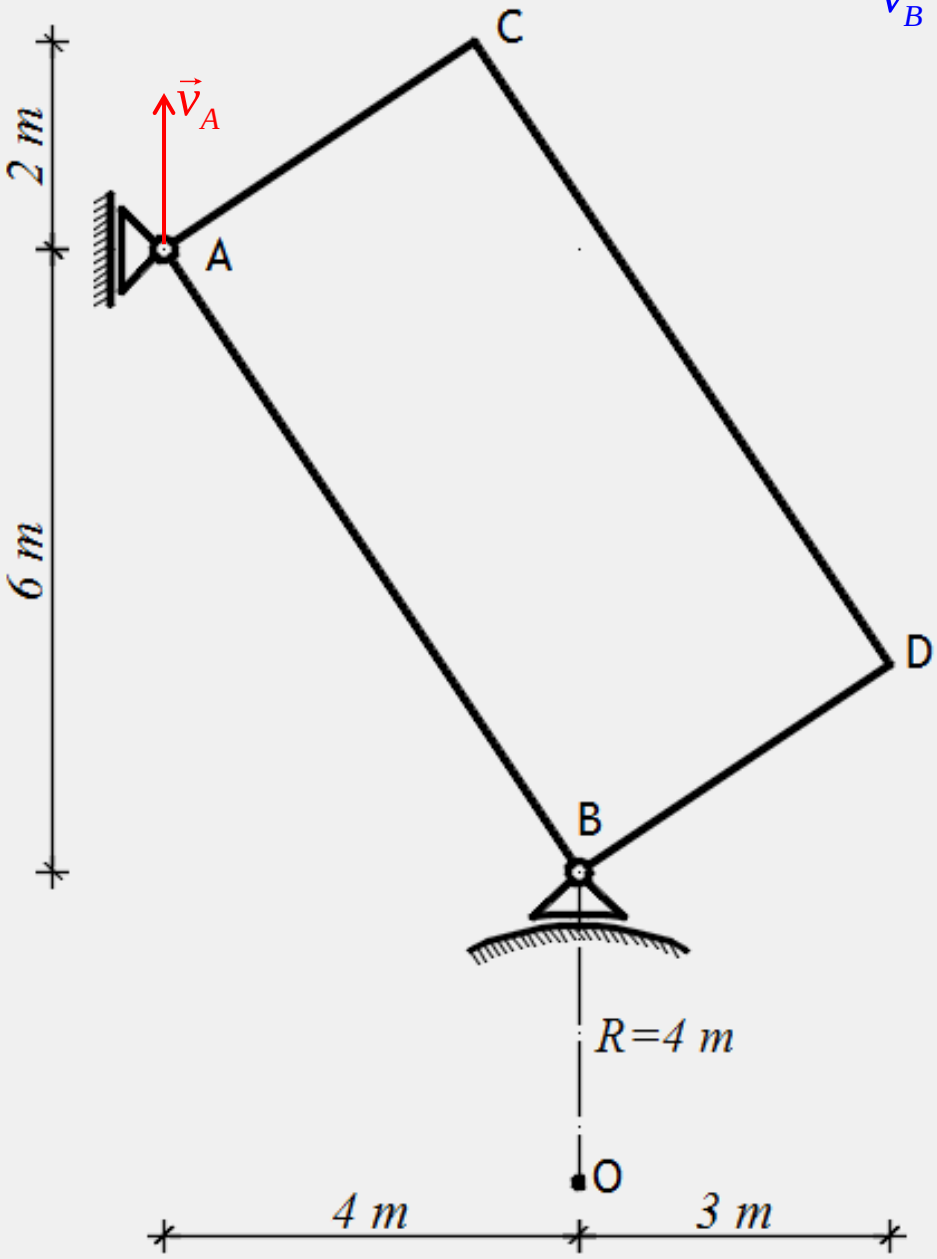
Brzina točke B



BRZINE

Brzina točke B

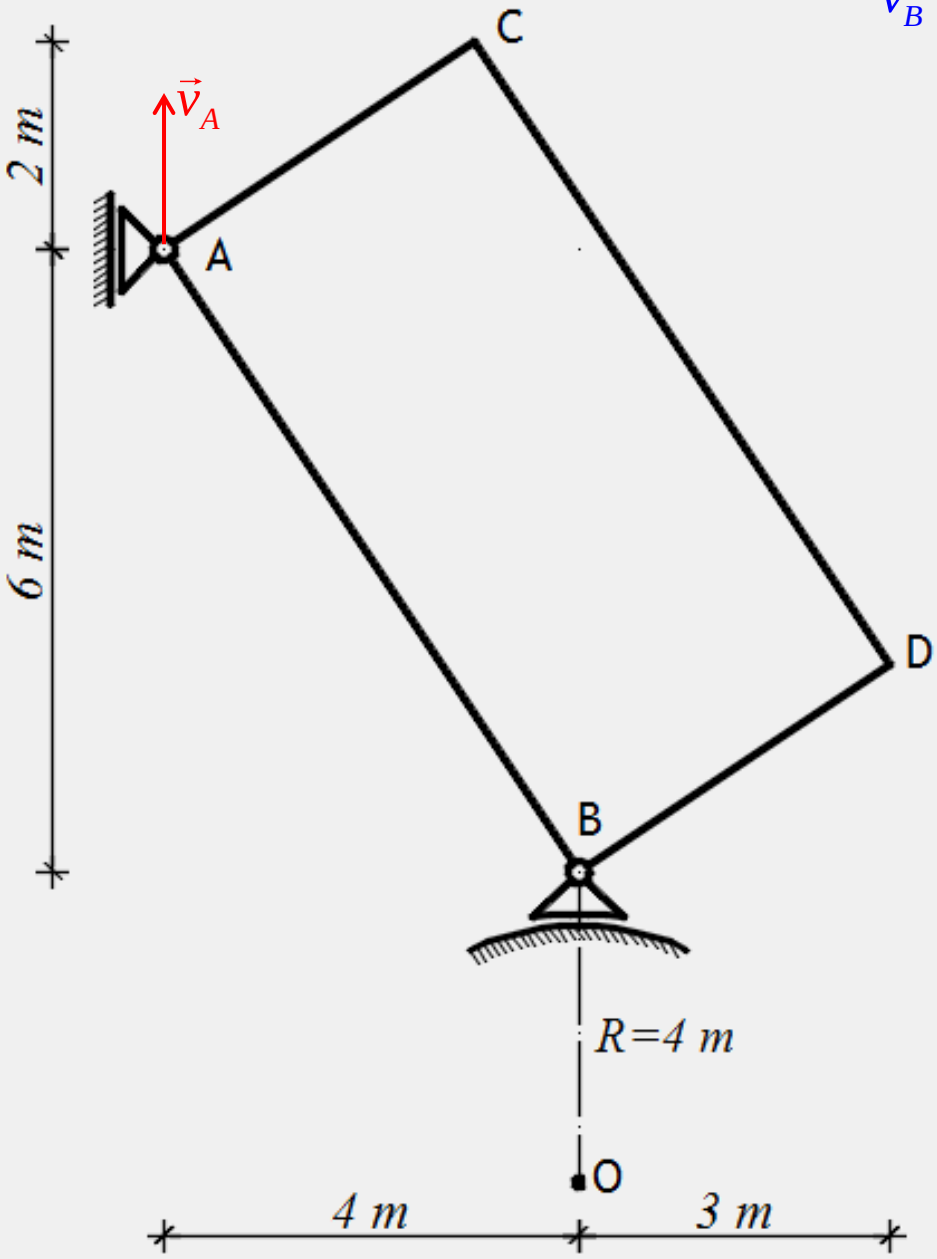
$$\vec{v}_B = \vec{v}_A + \vec{v}_{B/A}$$



BRZINE

Brzina točke B

$\vec{v}_B = \vec{v}_A + \vec{v}_{B/A} \qquad \vec{v}_{B/A} \perp \overline{AB}$



BRZINE

Brzina točke B

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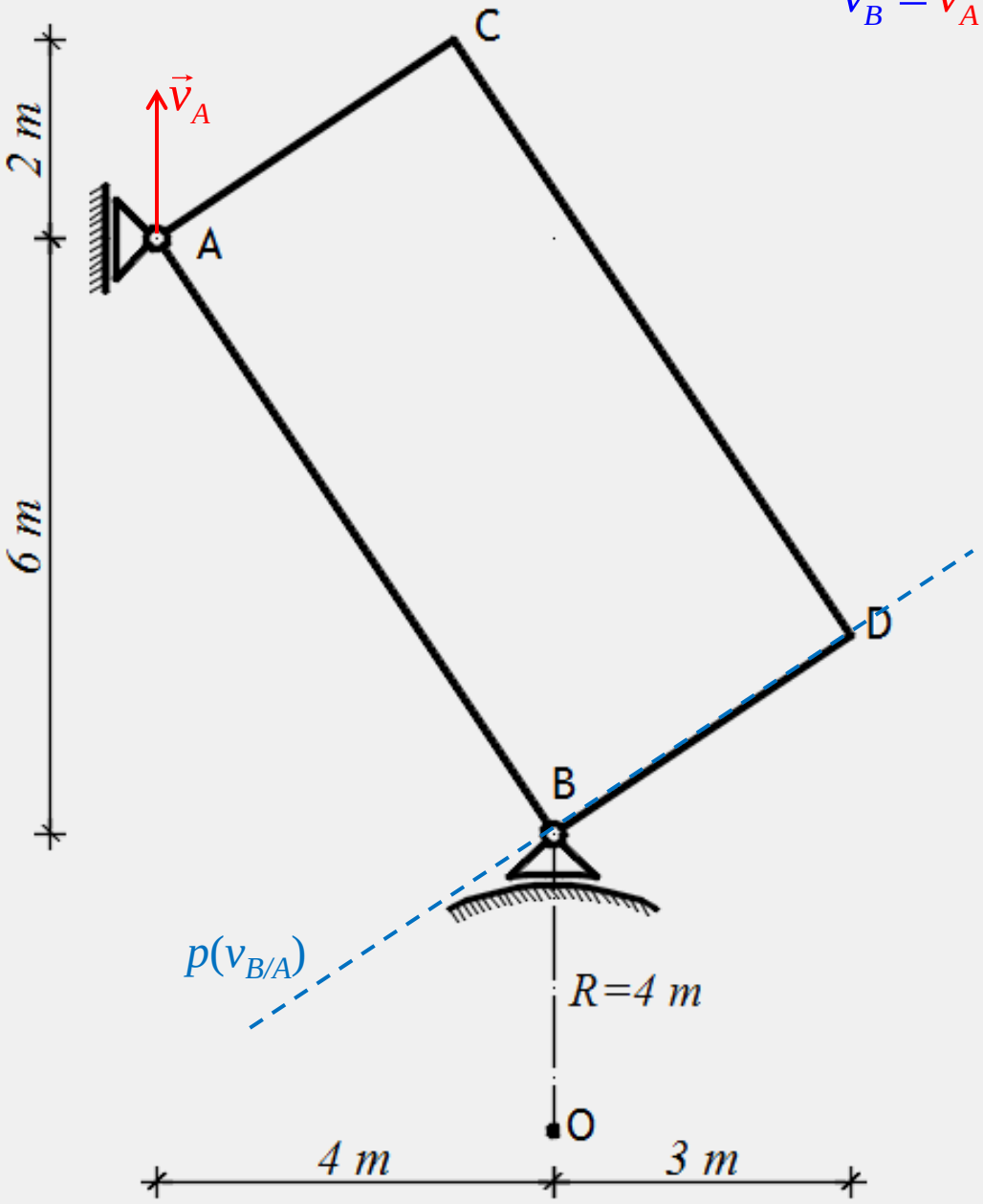

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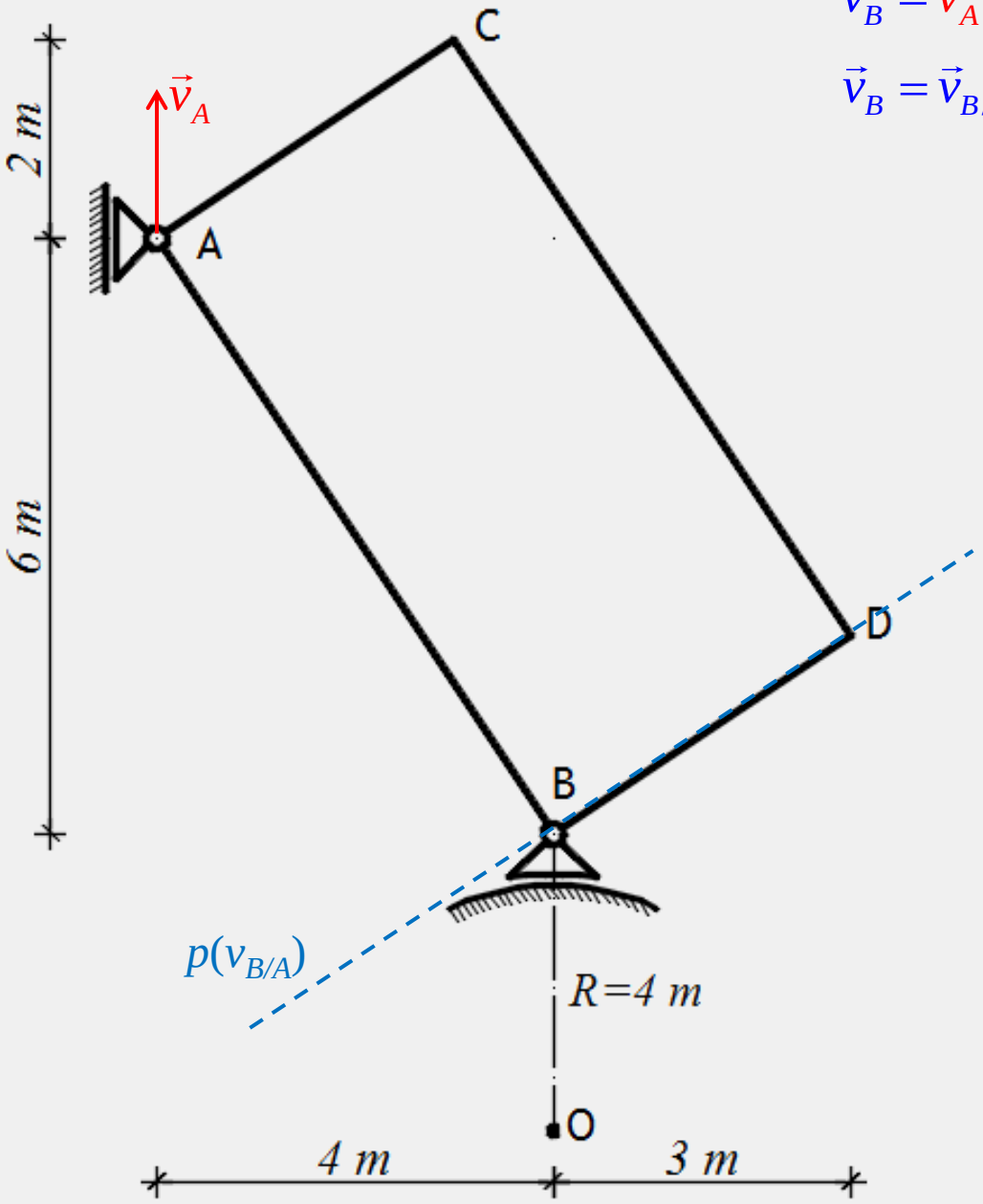
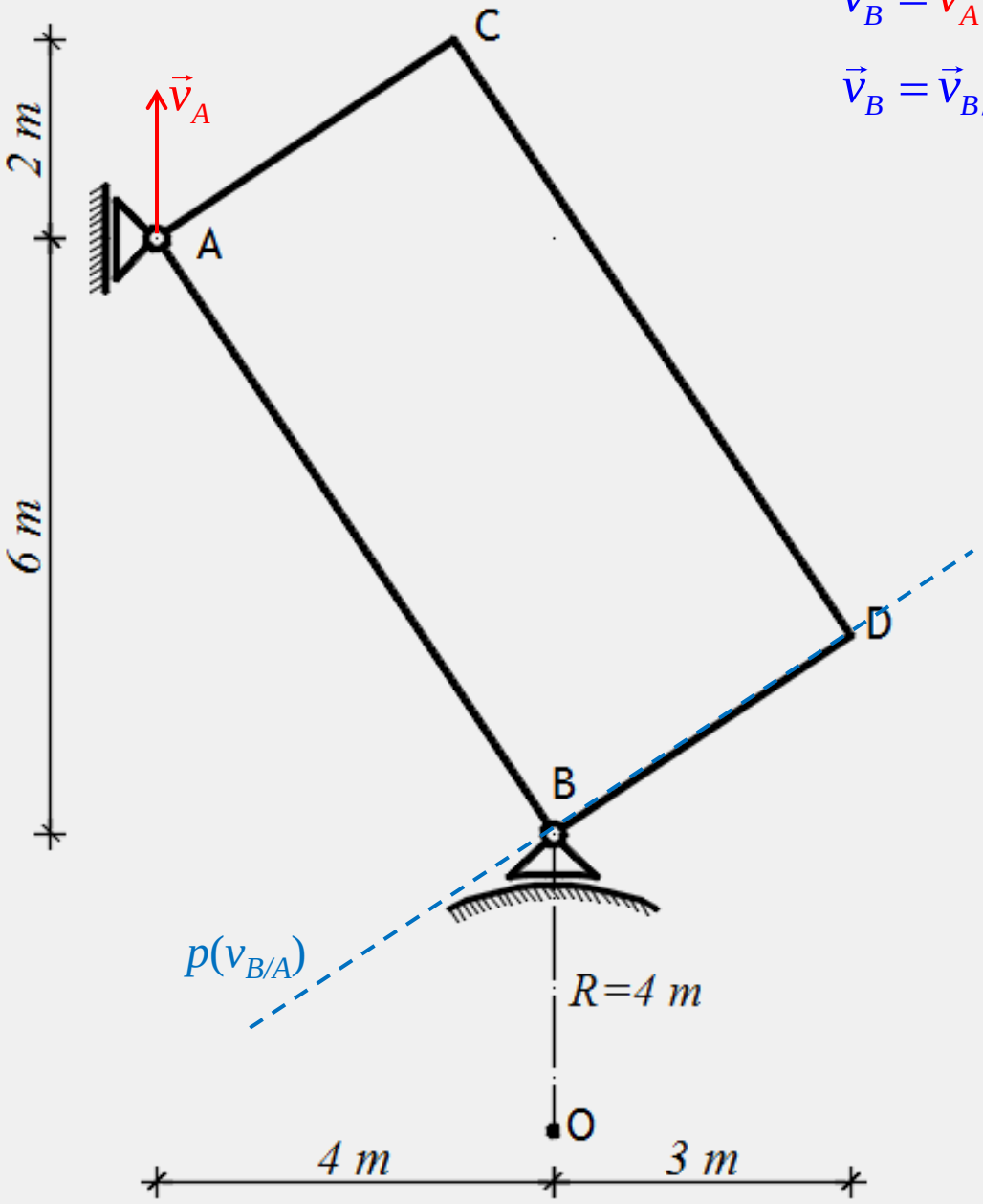


Brzina točke B

$\vec{v}_B = \vec{v}_A + \vec{v}_{B/A}$ $\qquad \vec{v}_{B/A} \perp \overline{AB}$

$\vec{v}_B = \vec{v}_{B/O}$

BRZINE



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$$\vec{v}_B = \vec{v}_A + \vec{v}_{B/A} \qquad \vec{v}_{B/A} \perp \overline{AB}$$

$$\vec{v}_B = \vec{v}_{B/O} \qquad \vec{v}_{B/O} \perp \overline{BO}$$

BRZINE

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$\vec{v}_B = \vec{v}_A + \vec{v}_{B/A} \qquad \vec{v}_{B/A} \perp \overline{AB}$

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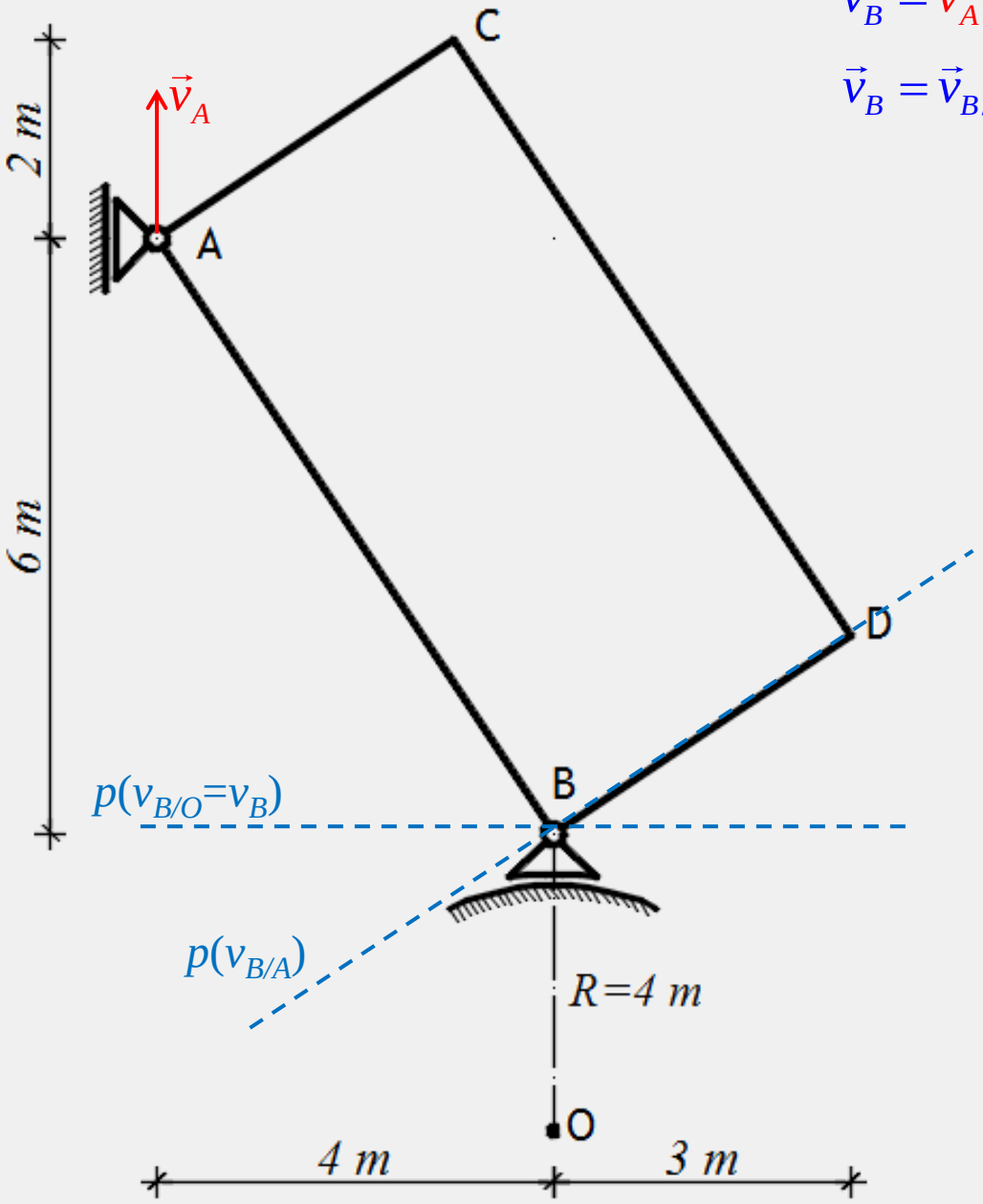
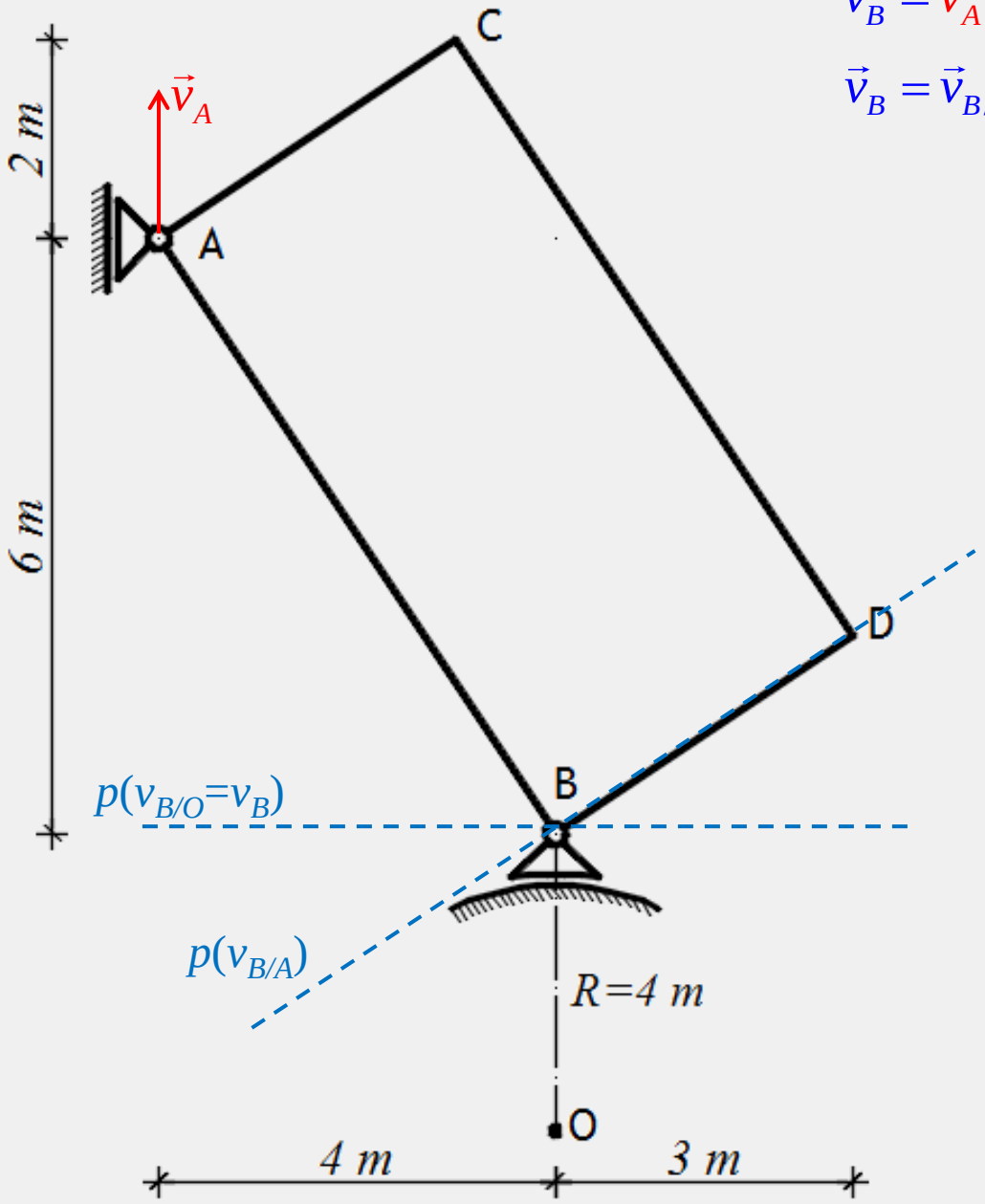


BRZINE



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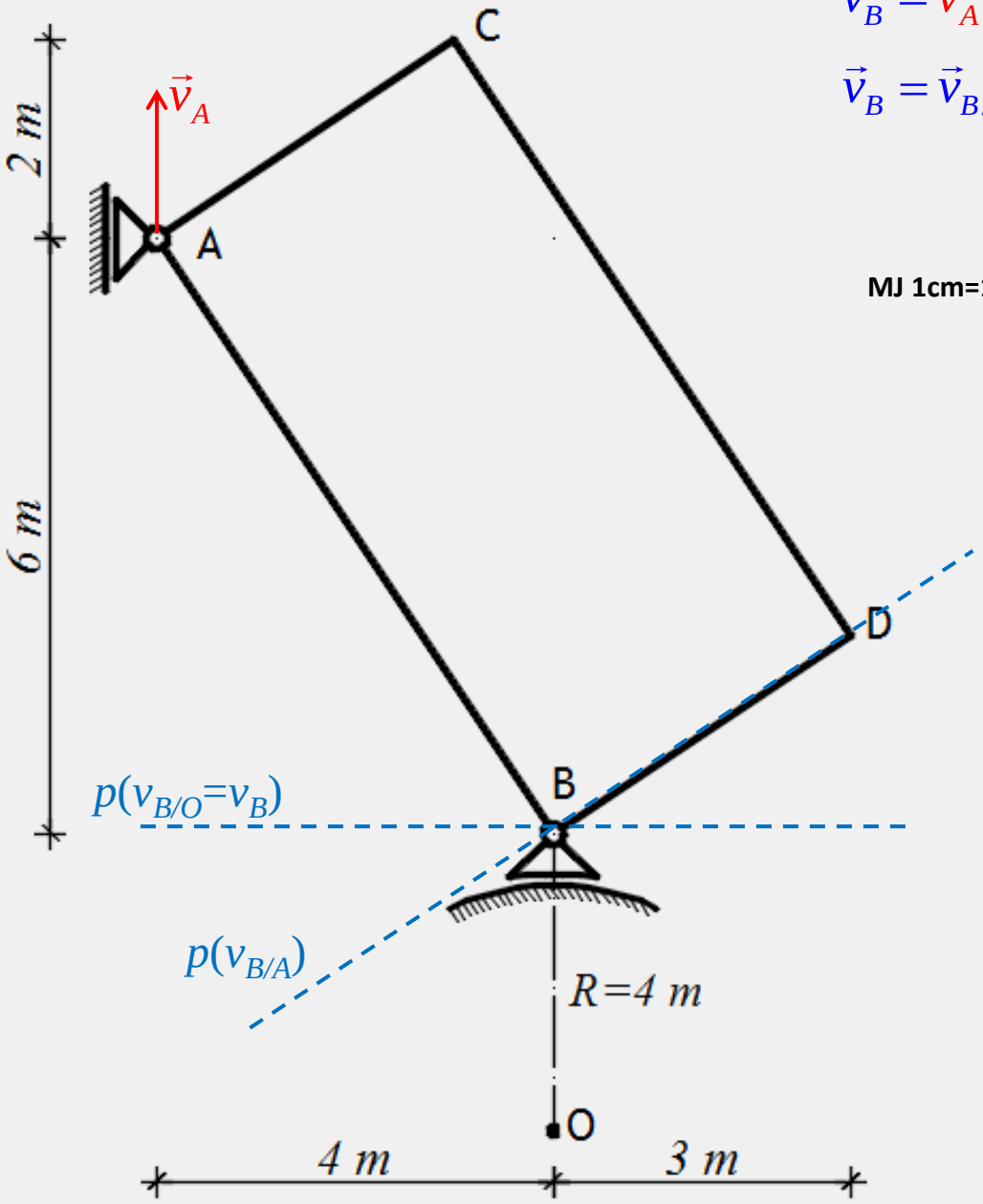
$$\vec{v}_A + \vec{v}_{B/A} = \vec{v}_B$$

BRZINE



Brzina točke B

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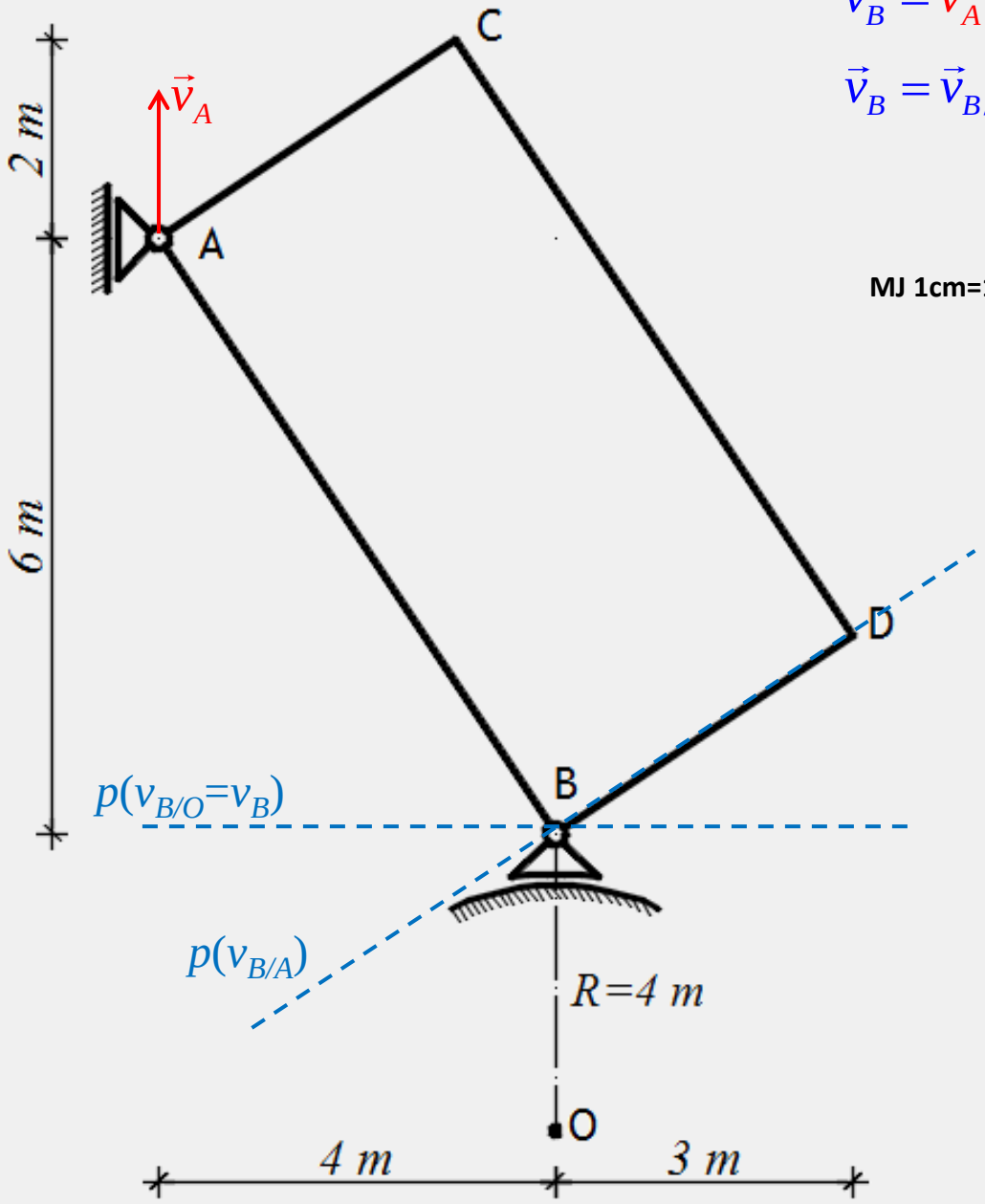
MJ 1cm=1m/s

BRZINE



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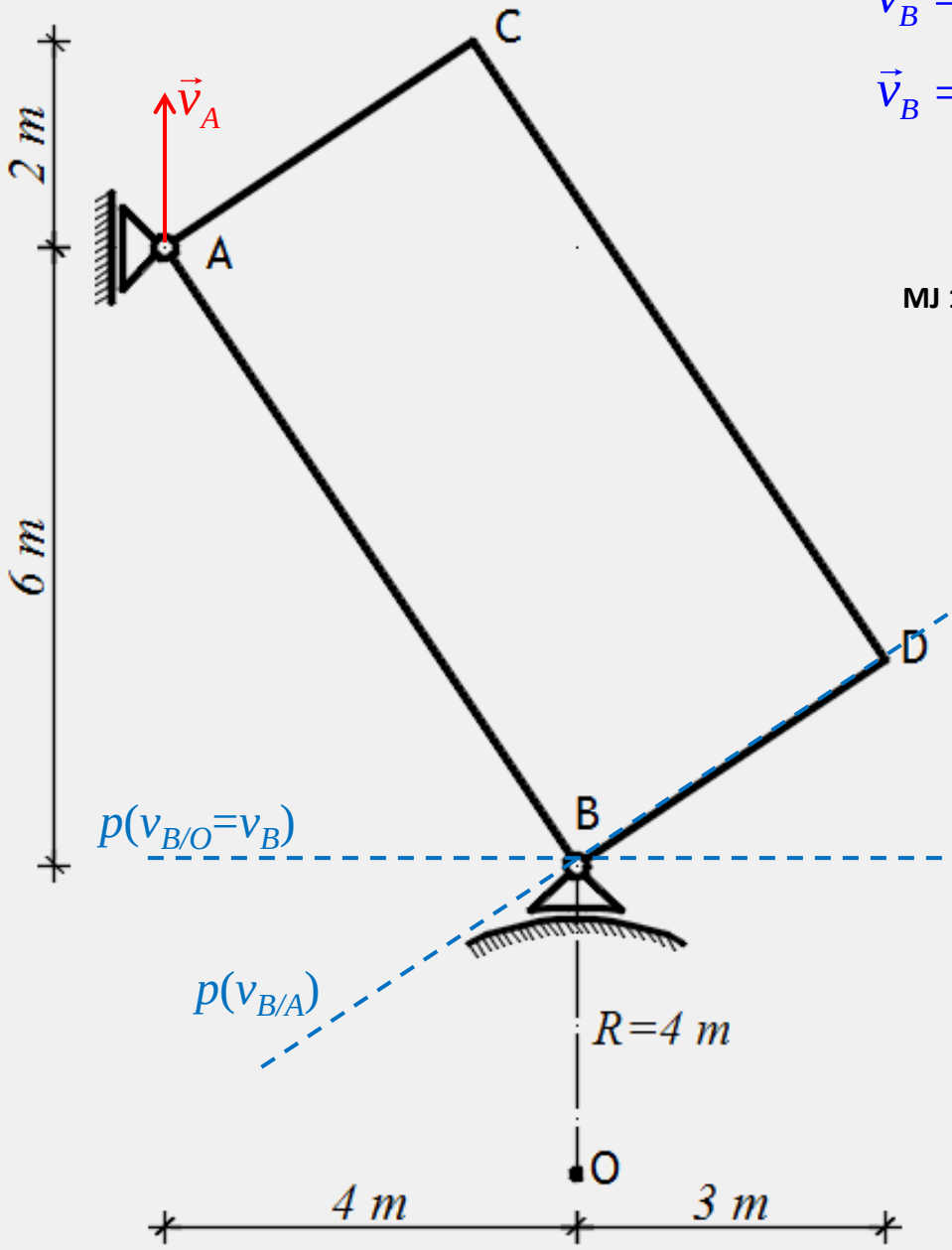

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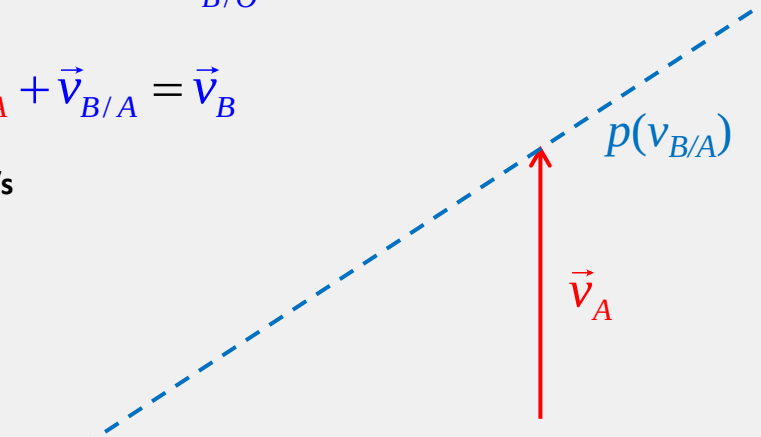

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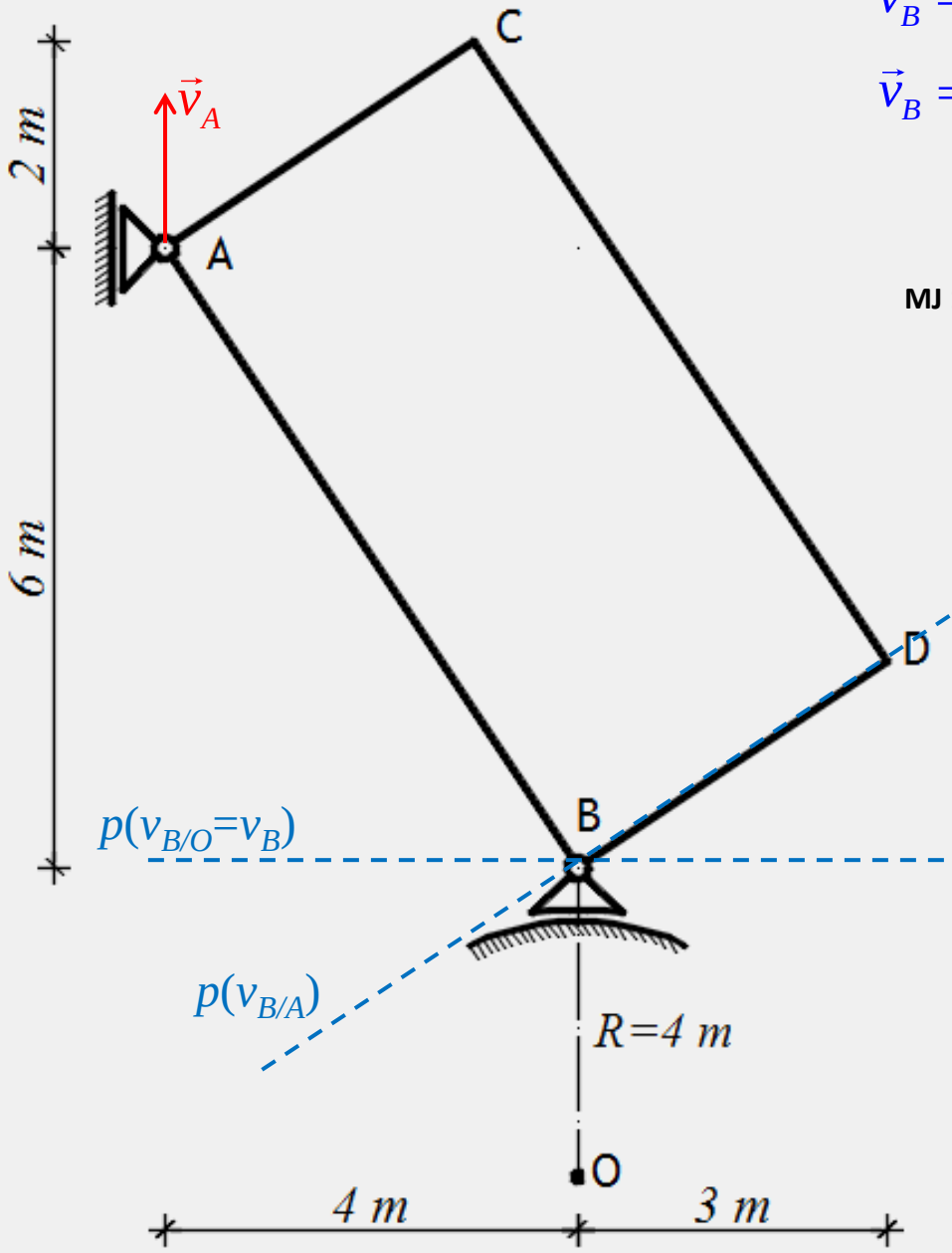

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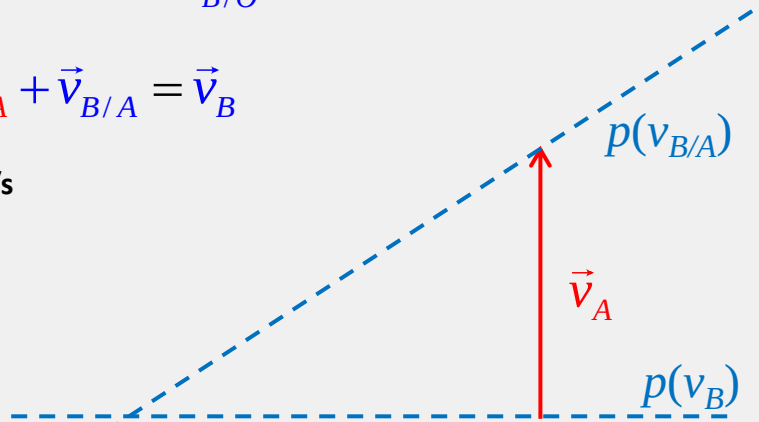

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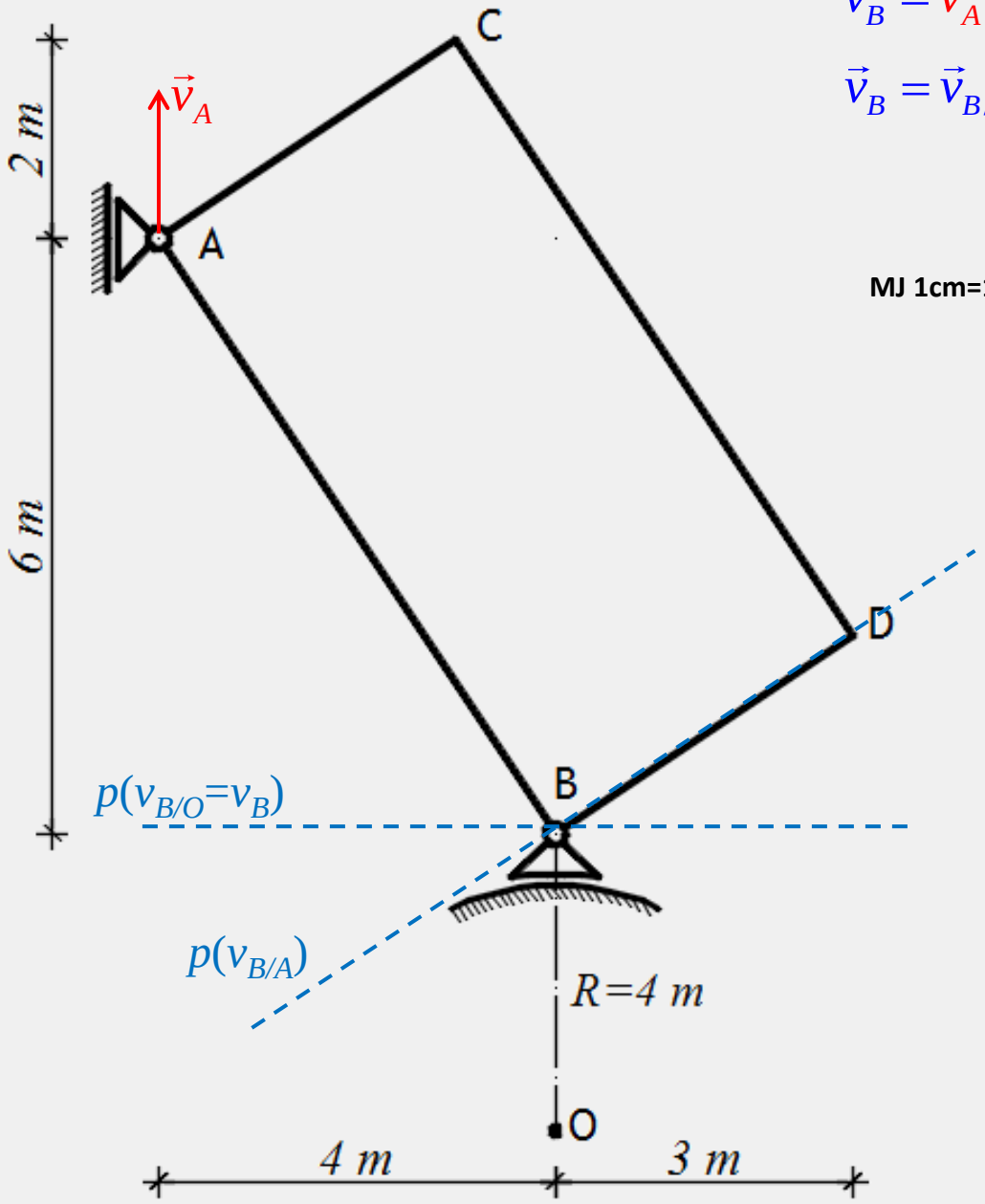

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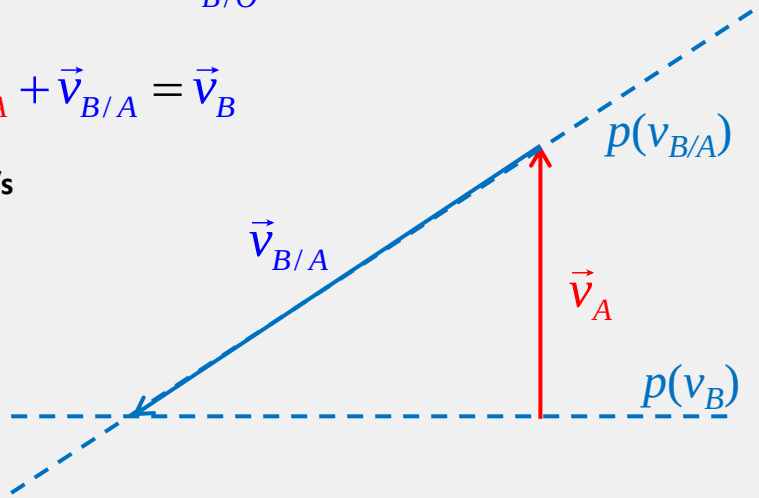

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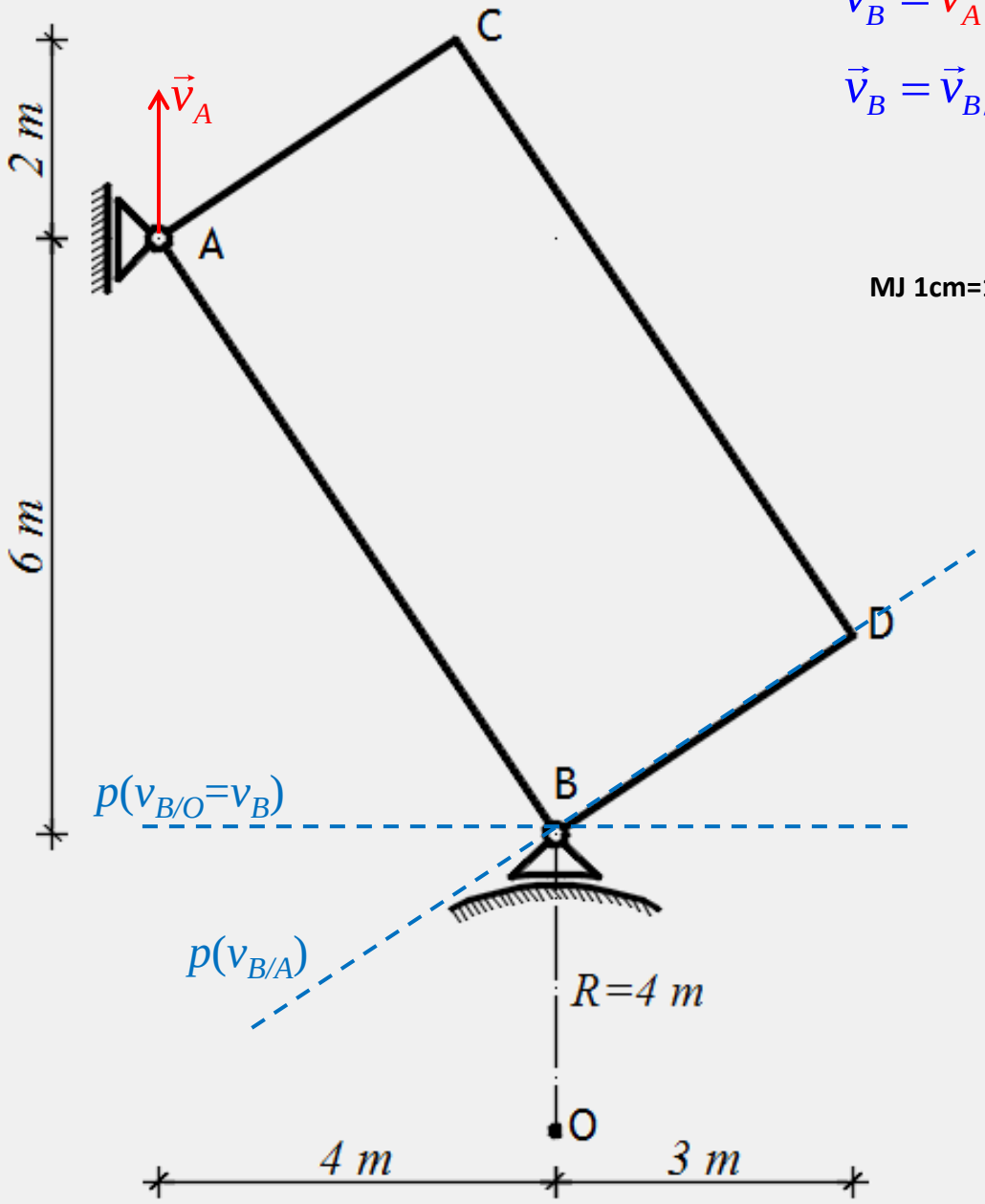

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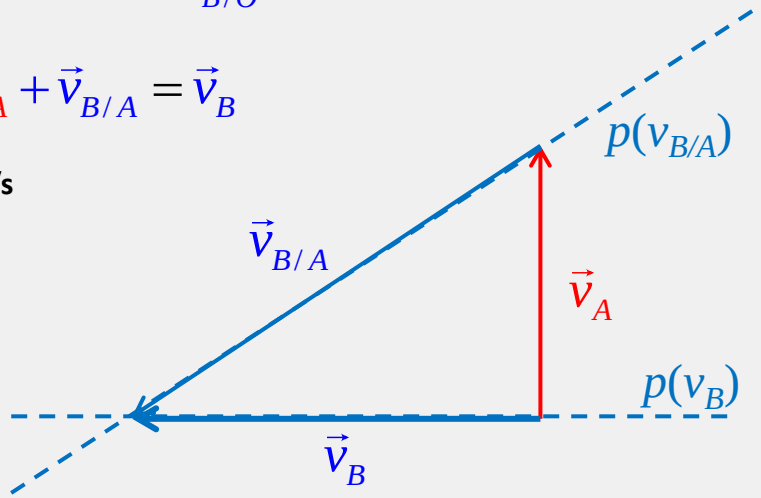

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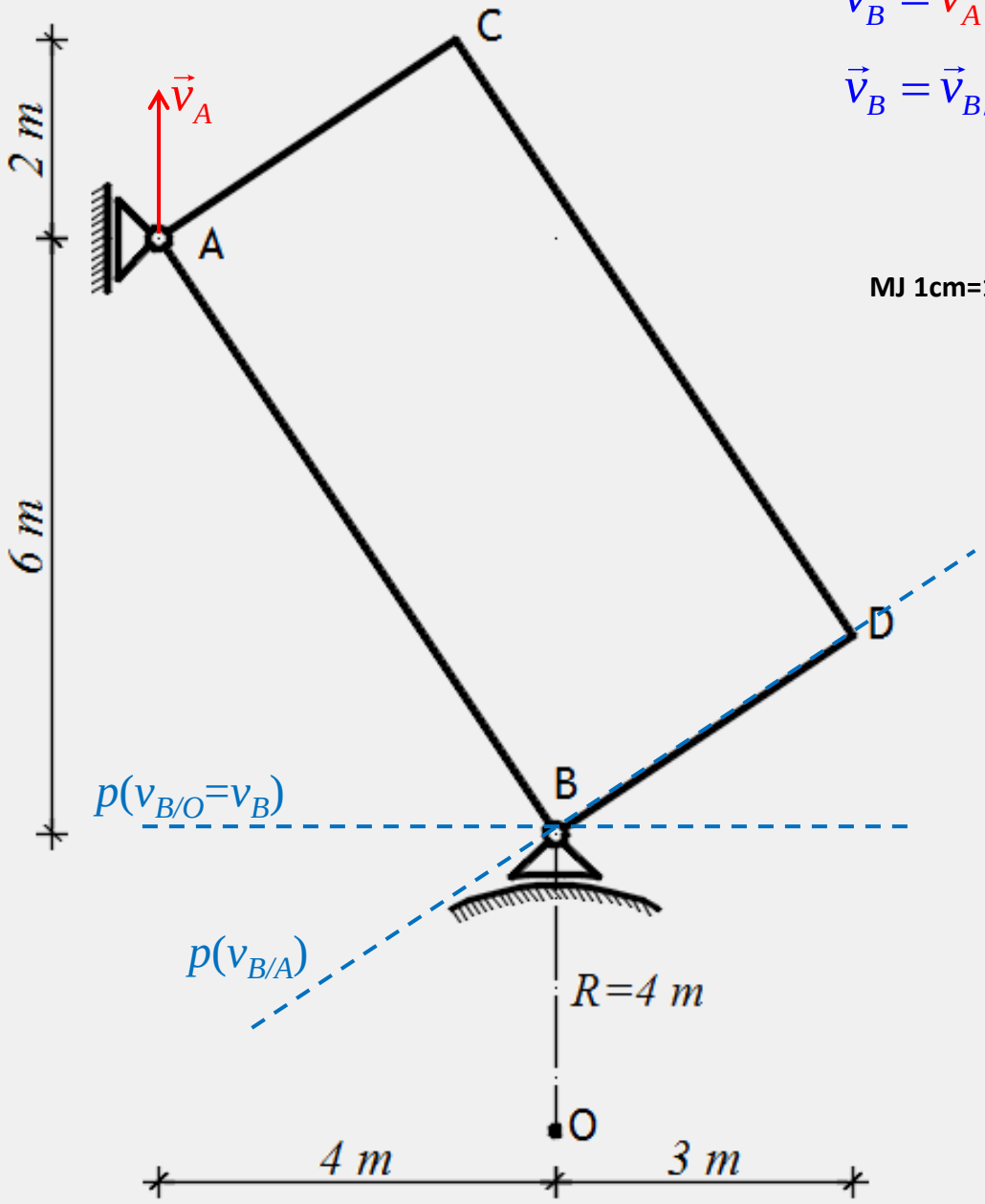

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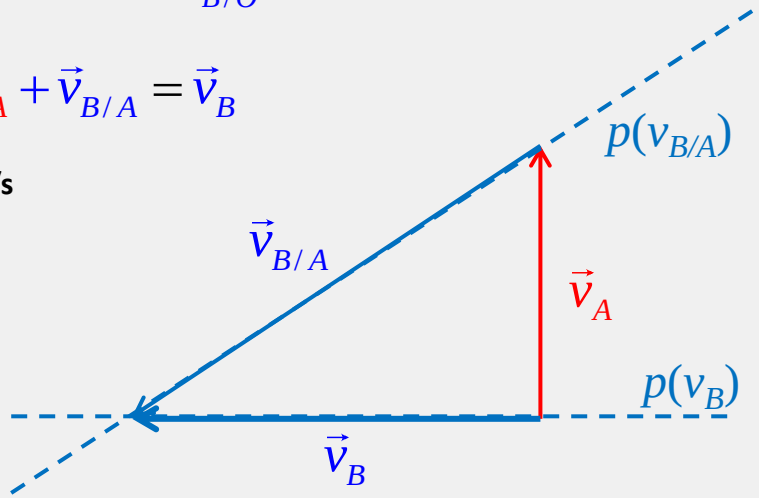
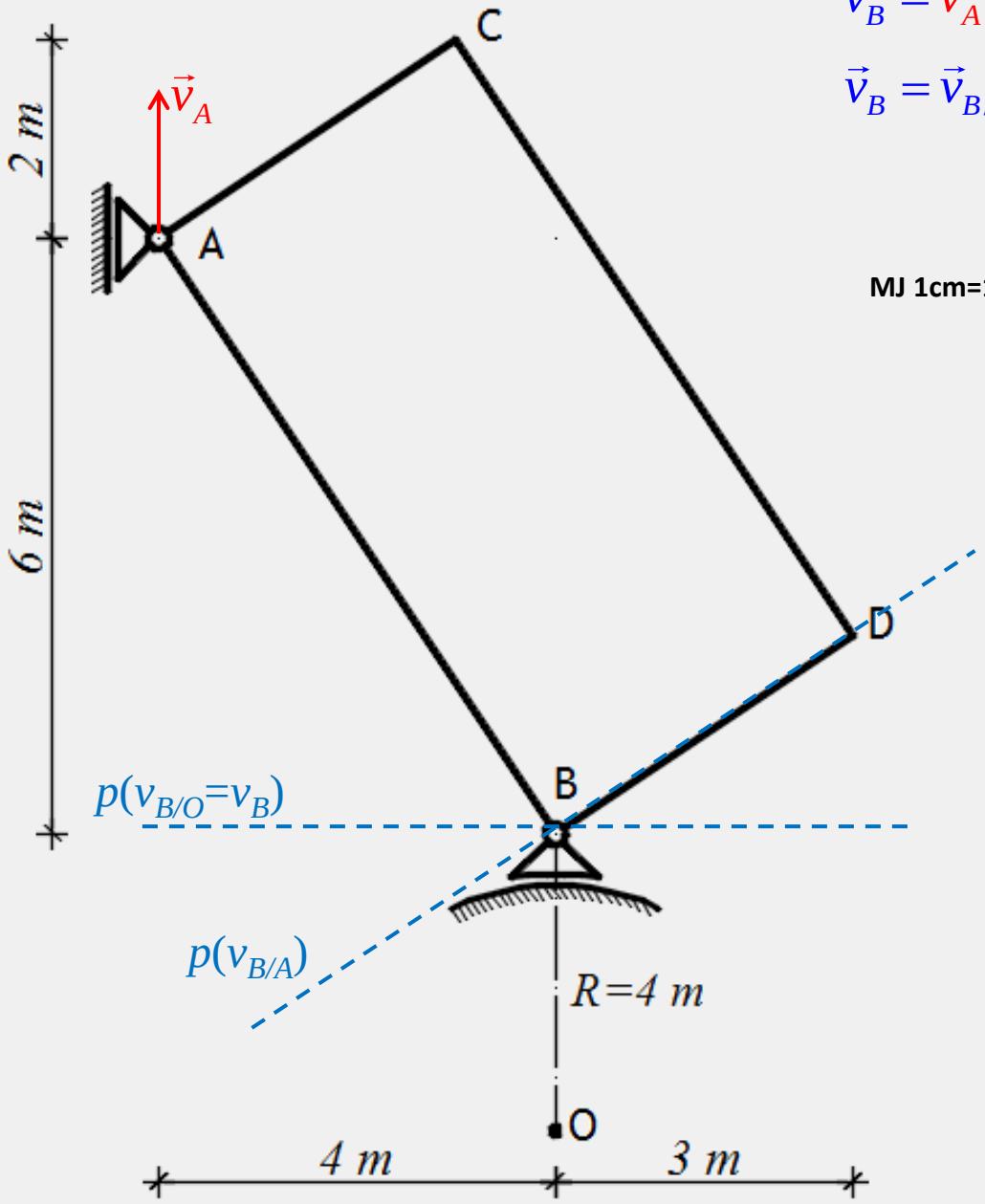
MJ 1cm=1m/s



očitano:

BRZINE



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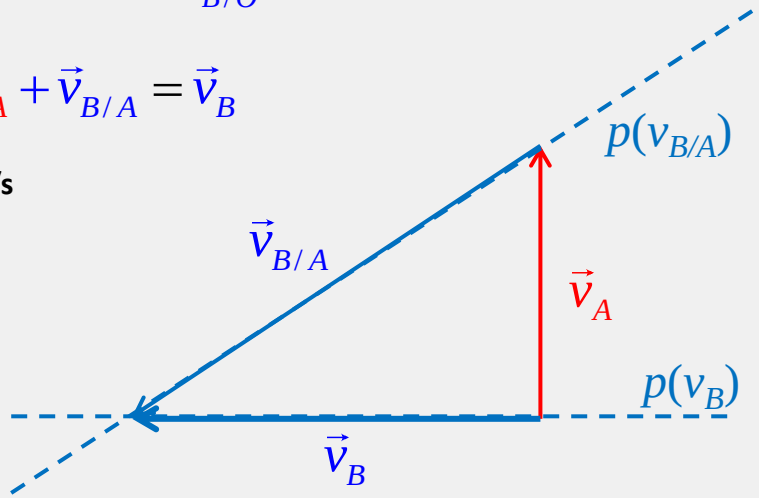
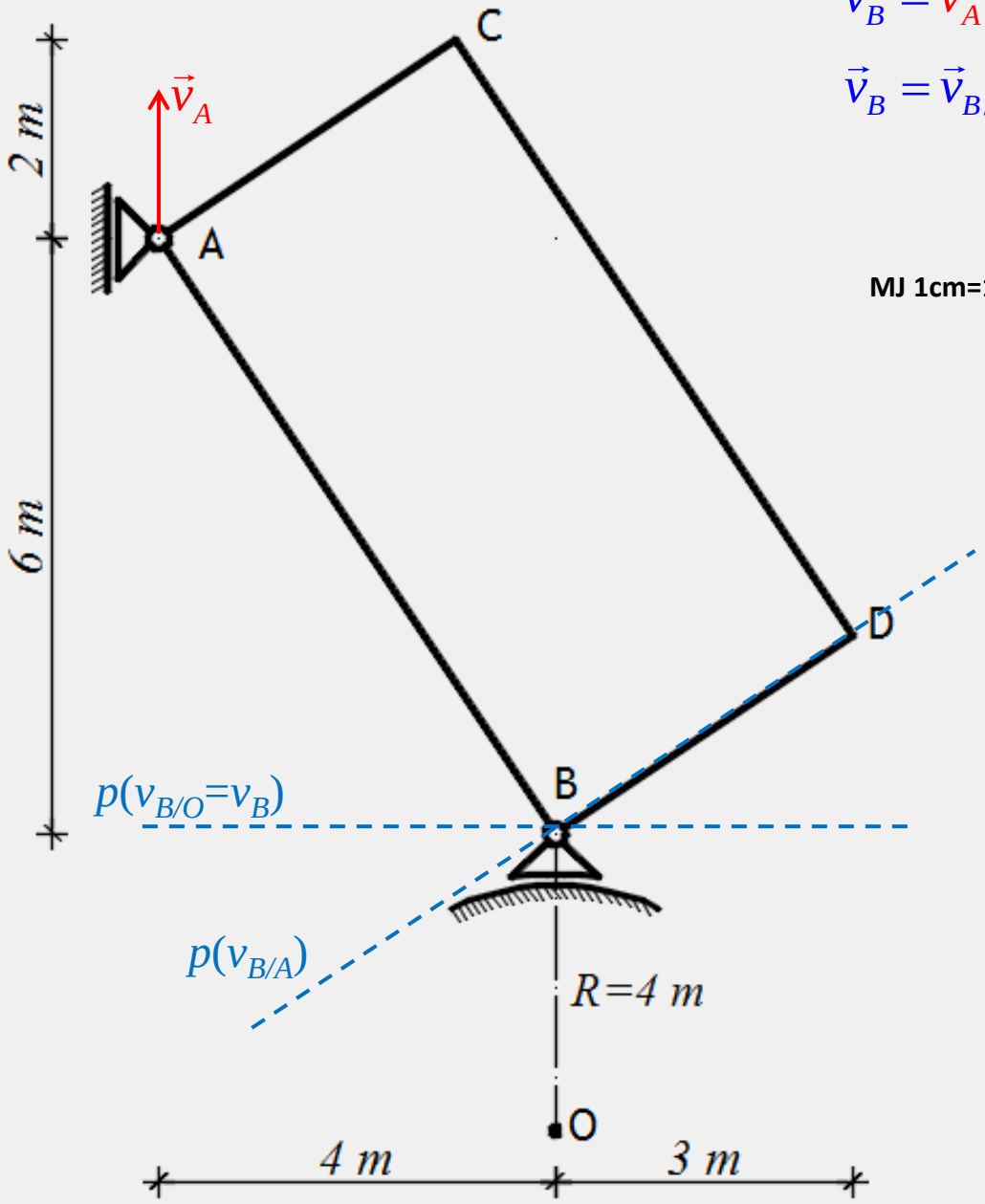


očitano: $v_{B/A} = 7,2\ cm = 7,2\ m/s$

BRZINE



Brzina točke B

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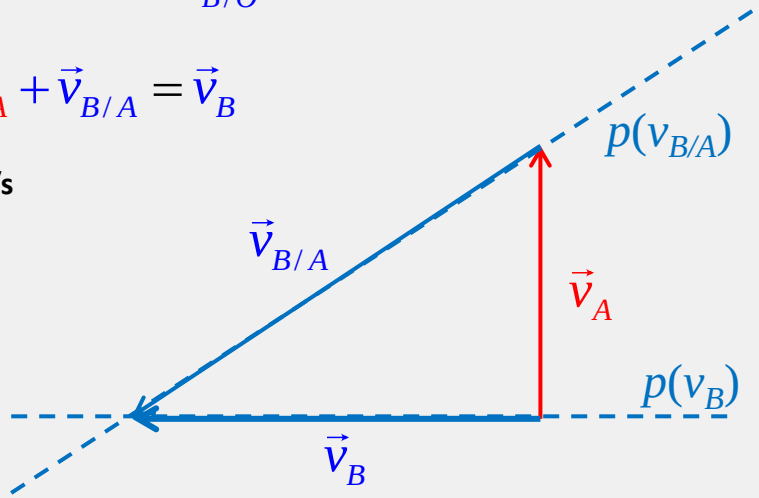
$\vec{v}_B = \vec{v}_{B/O} \qquad \vec{v}_{B/O} \perp \overline{BO}$

$\vec{v}_A + \vec{v}_{B/A} = \vec{v}_B$

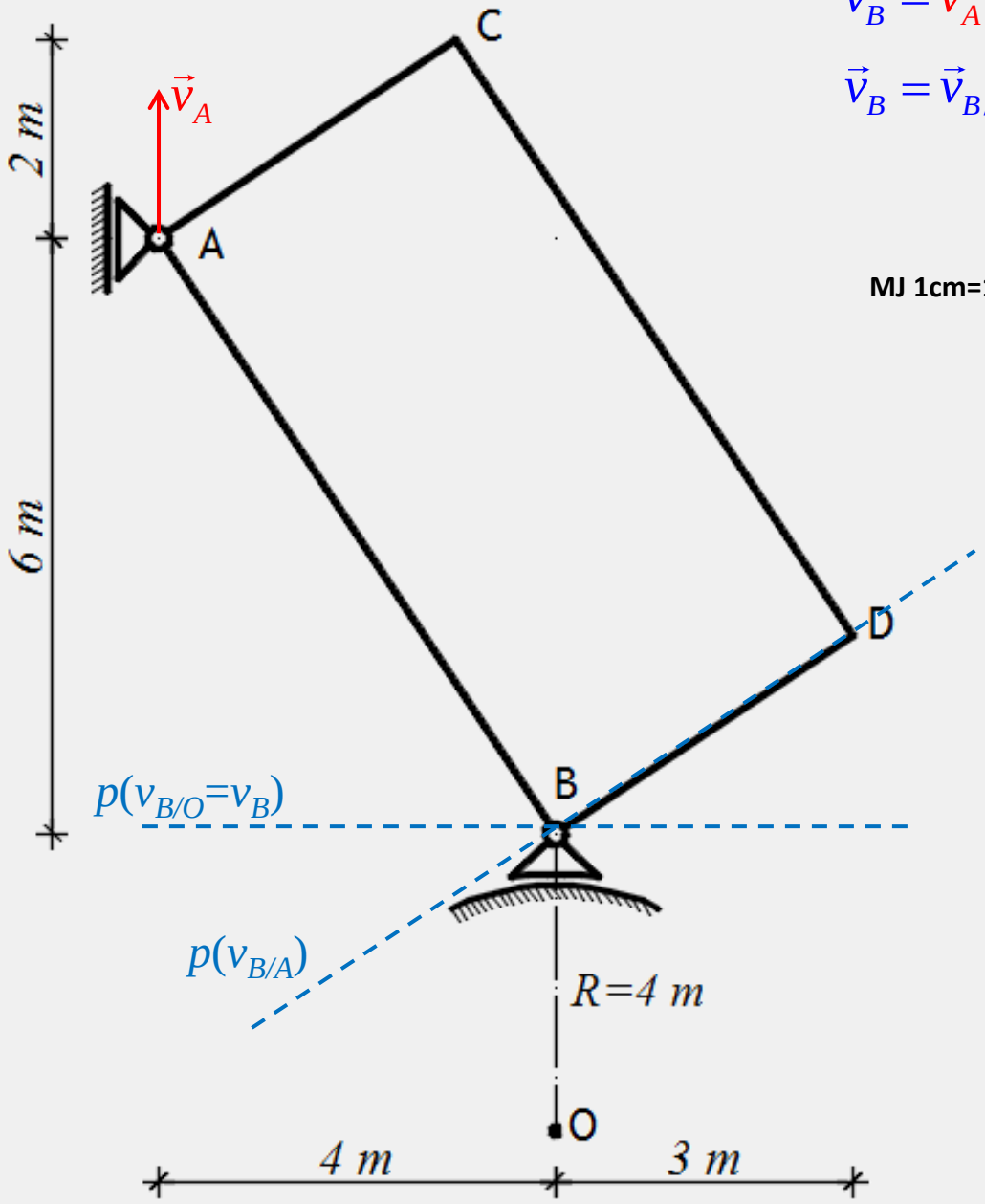
MJ 1cm=1m/s



očitano: $v_{B/A} = 7,2\ cm = 7,2\ m/s$

$v_B = 6\ cm = 6\ m/s$

BRZINE



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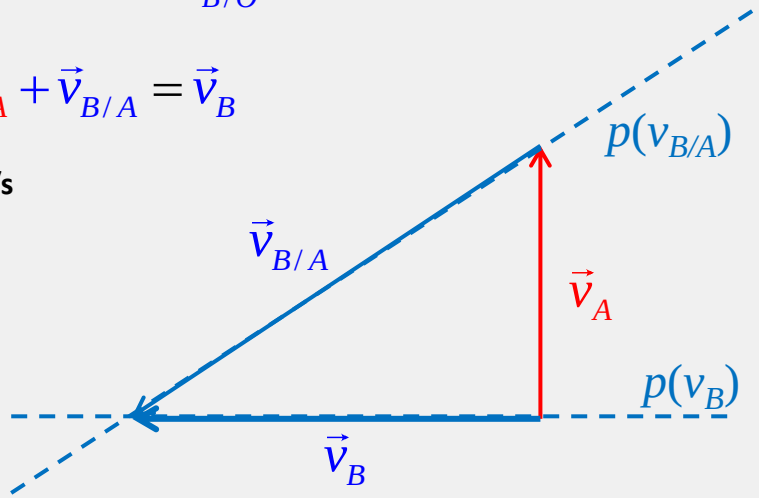
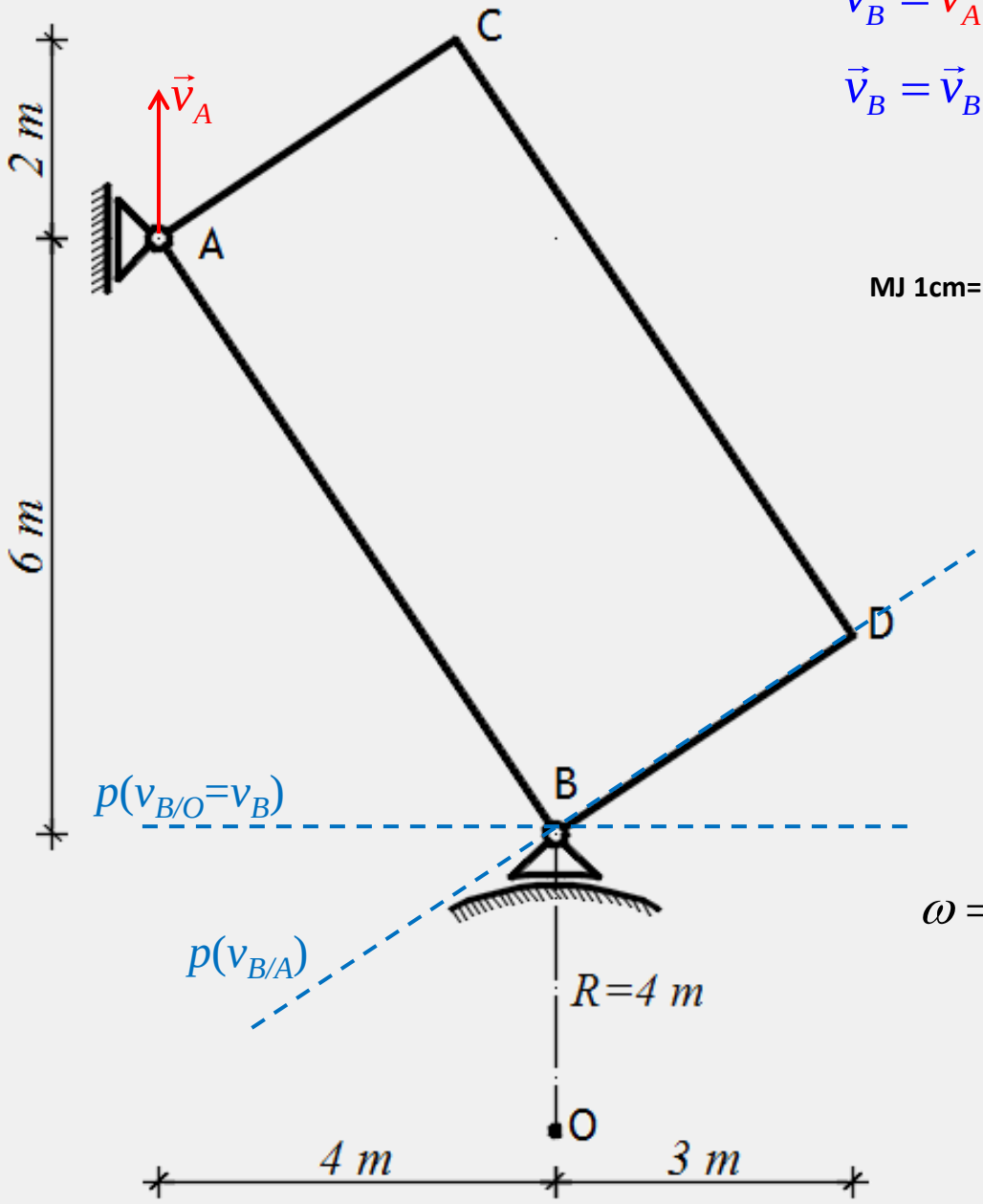


očitano: $v_{B/A} = 7,2\ cm = 7,2\ m/s$

$v_B = 6\ cm = 6\ m/s$

$\vec{v}_B = -6\vec{i}$

BRZINE



Brzina točke B

$\vec{v}_B = \vec{v}_A + \vec{v}_{B/A} \qquad \vec{v}_{B/A} \perp \overline{AB}$

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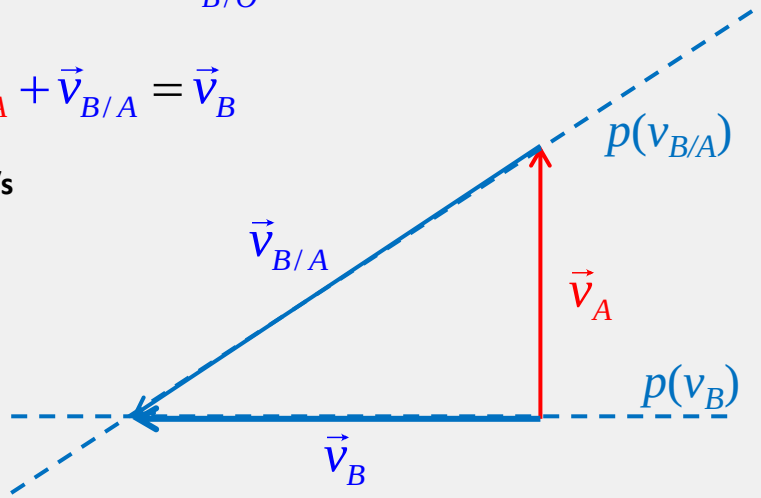


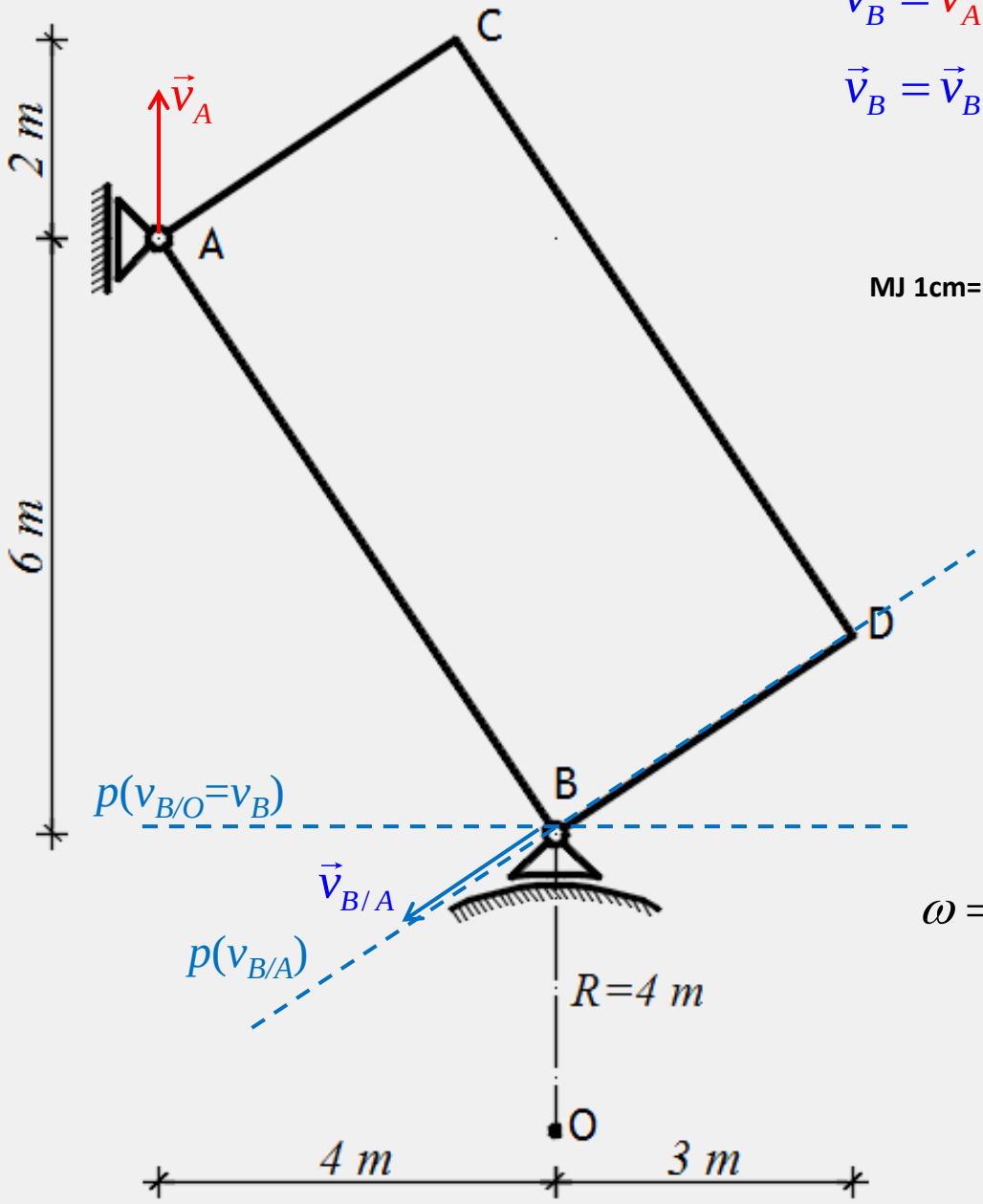
očitano: $v_{B/A} = 7,2\ cm = 7,2\ m/s$

$v_B = 6\ cm = 6\ m/s$

$\vec{v}_B = -6\vec{i}$

$$\omega = \frac{v_{B/A}}{AB} = \frac{7,2}{7,2} = 1\ r/s$$

BRZINE



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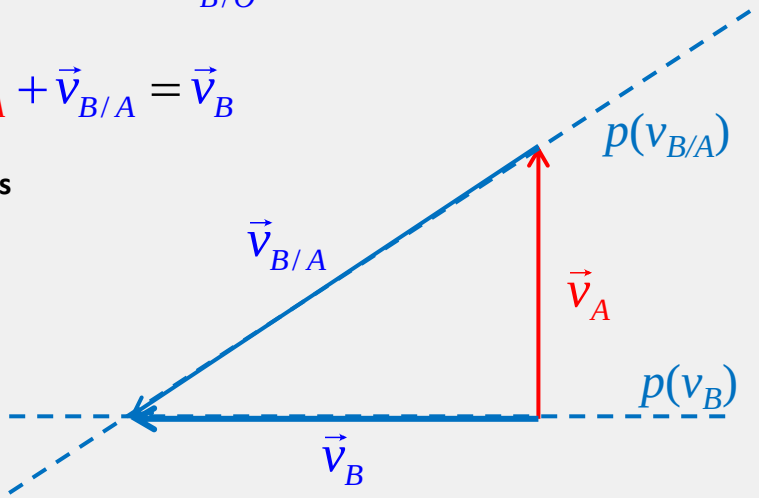

očitano: $v_{B/A} = 7,2\ cm = 7,2\ m/s$

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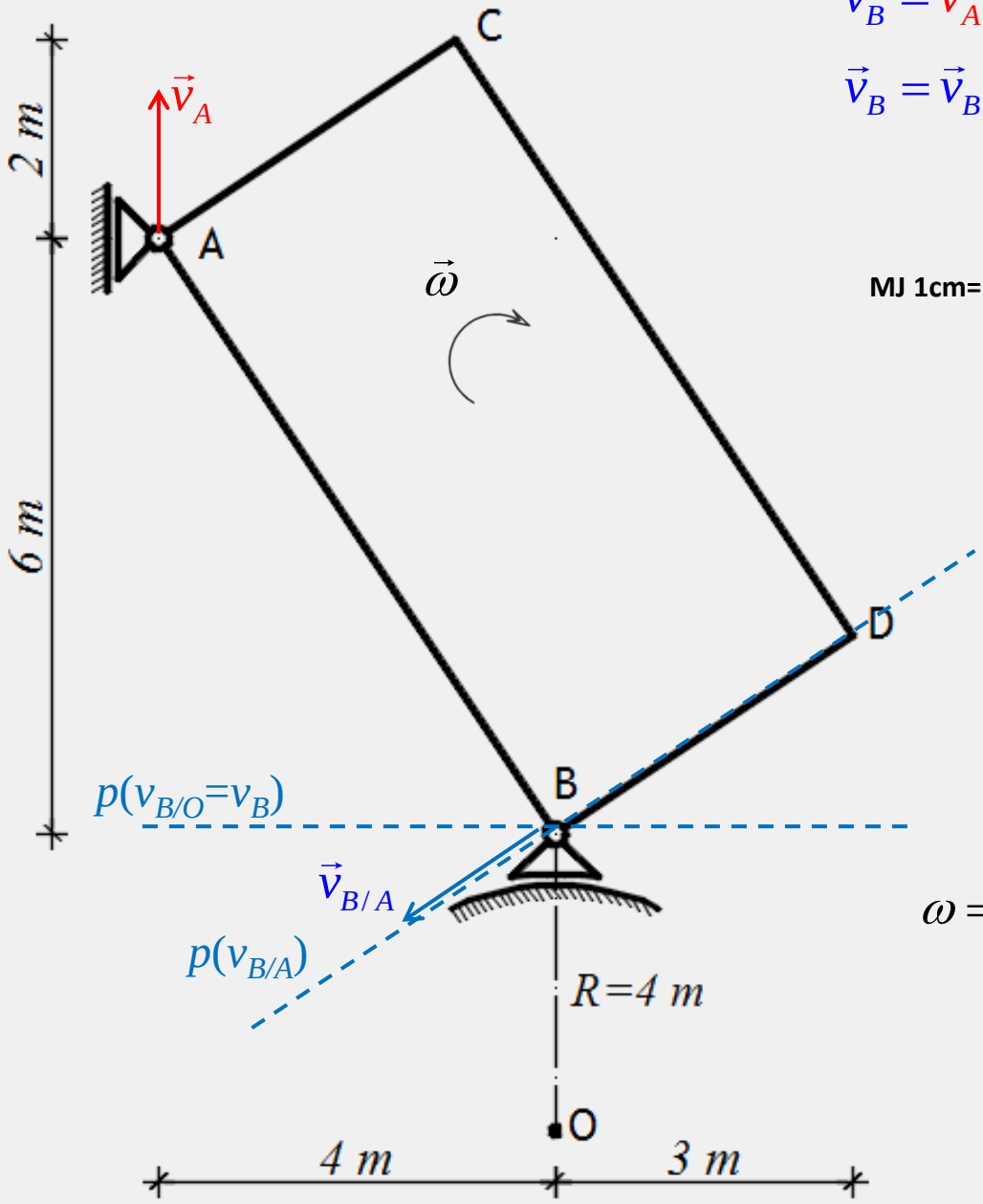
BRZINE



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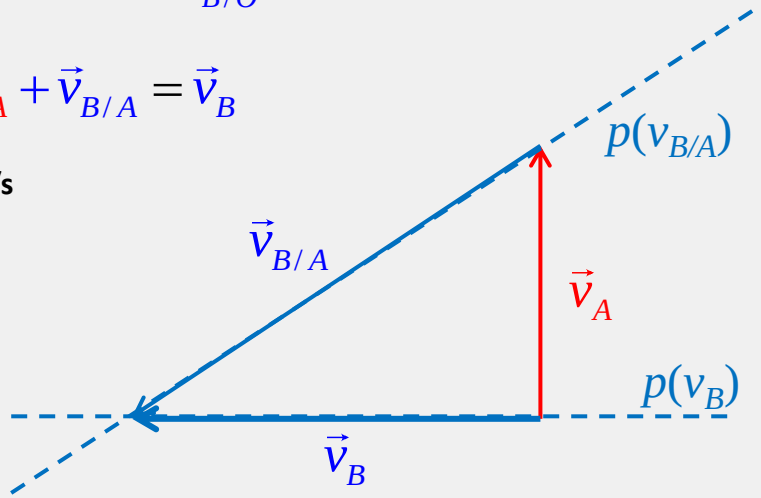

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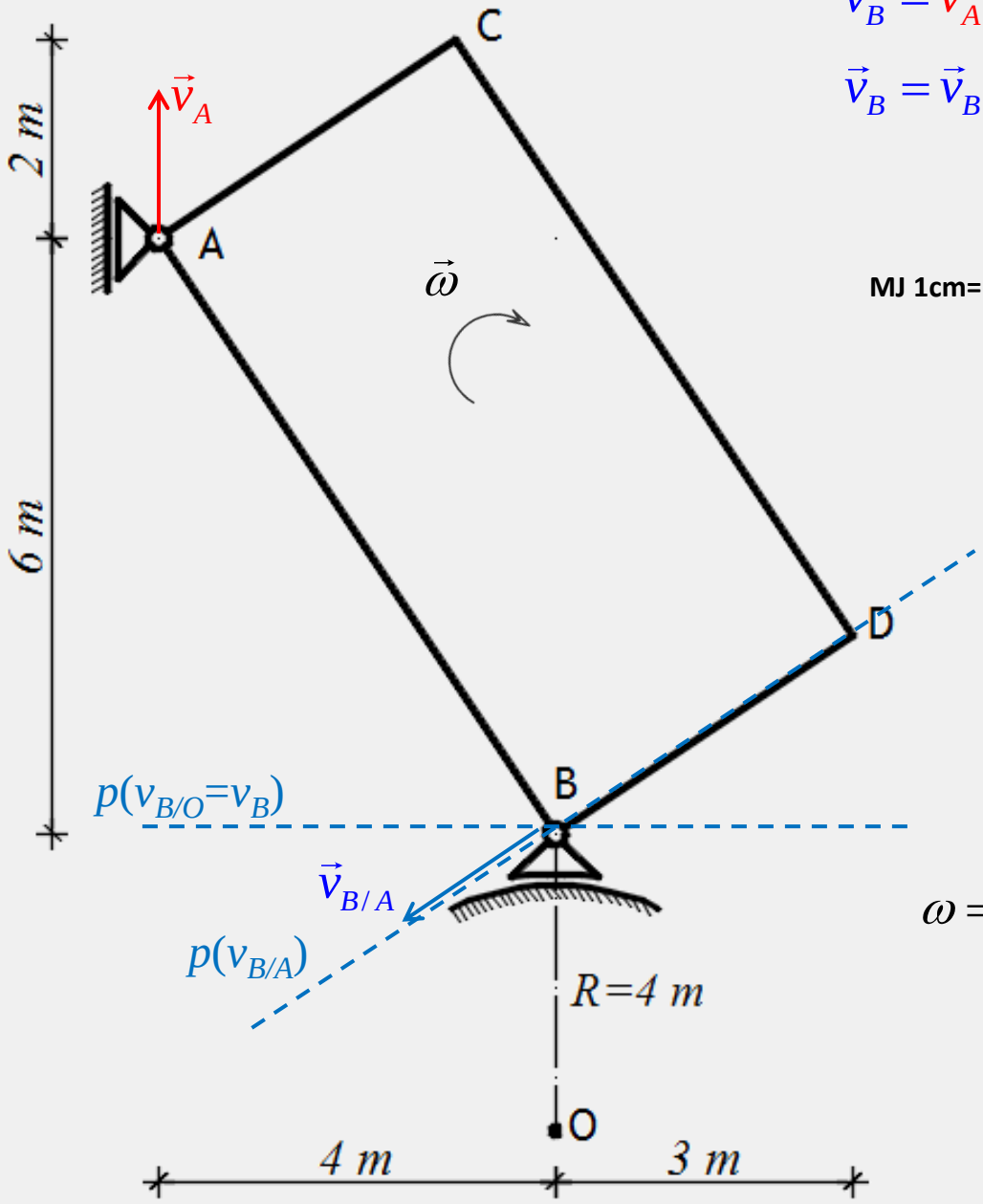
BRZINE



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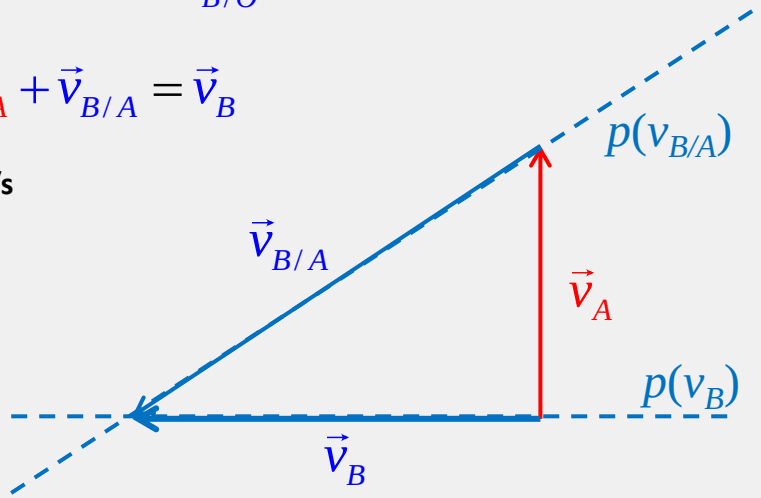


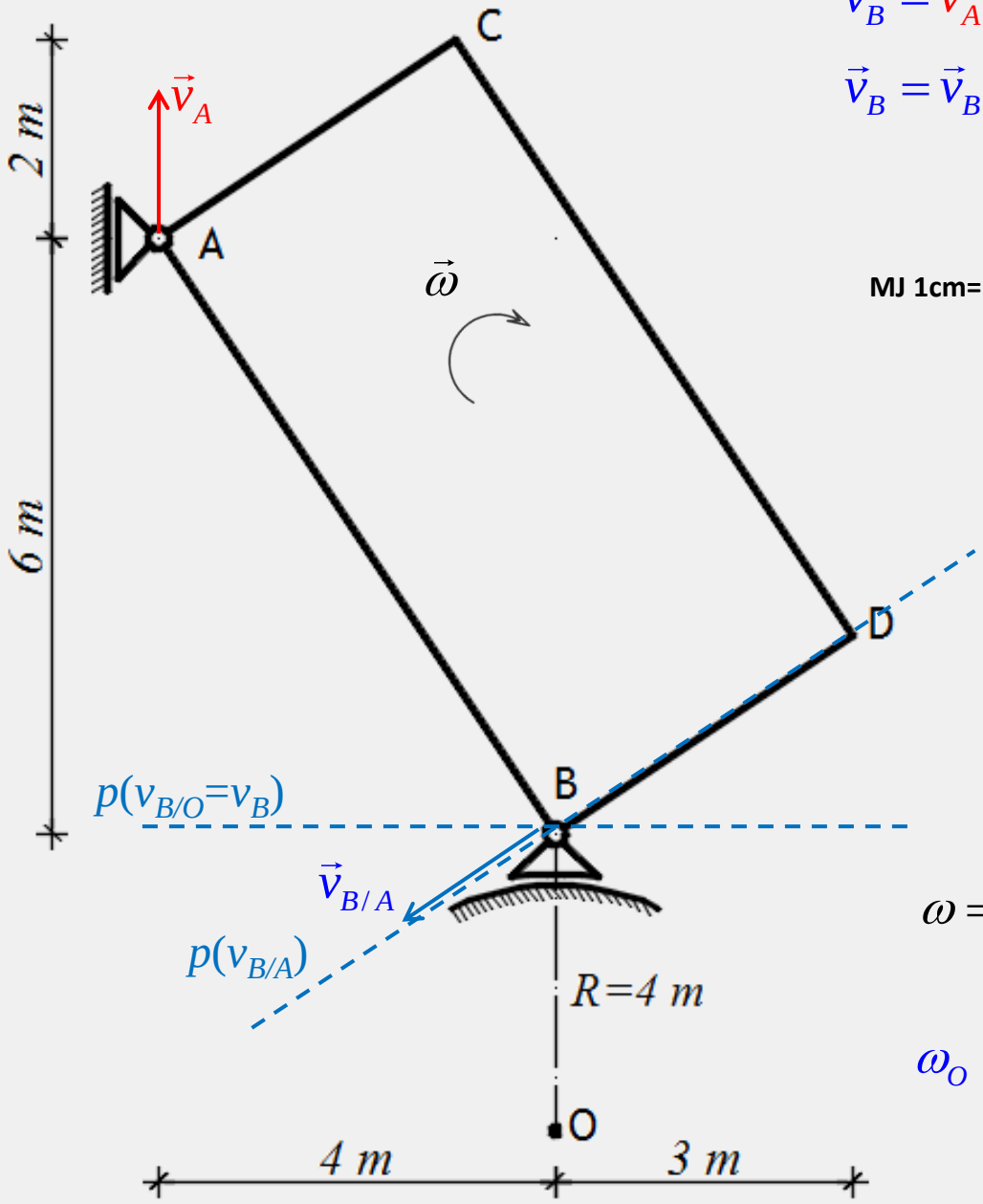
očitano: $v_{B/A} = 7,2\ cm = 7,2\ m/s$

$v_B = 6\ cm = 6\ m/s$

$\vec{v}_B = -6\vec{i}$

$$\omega = \frac{v_{B/A}}{AB} = \frac{7,2}{7,2} = 1\ r/s \qquad \vec{\omega} = -\vec{k}$$

BRZINE



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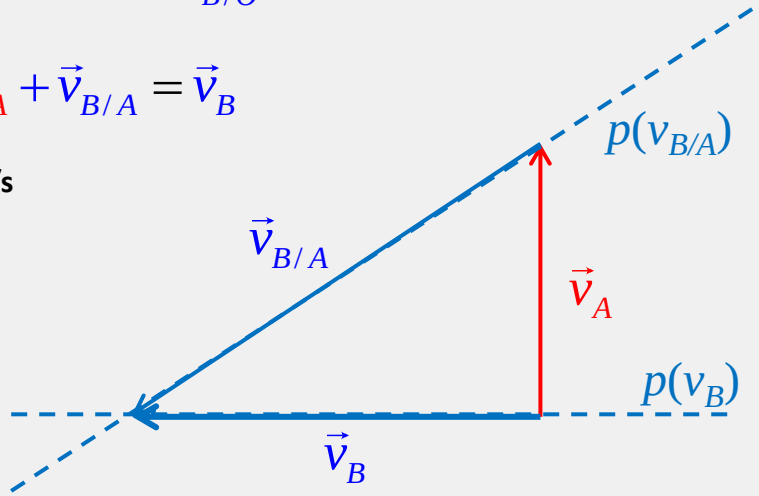

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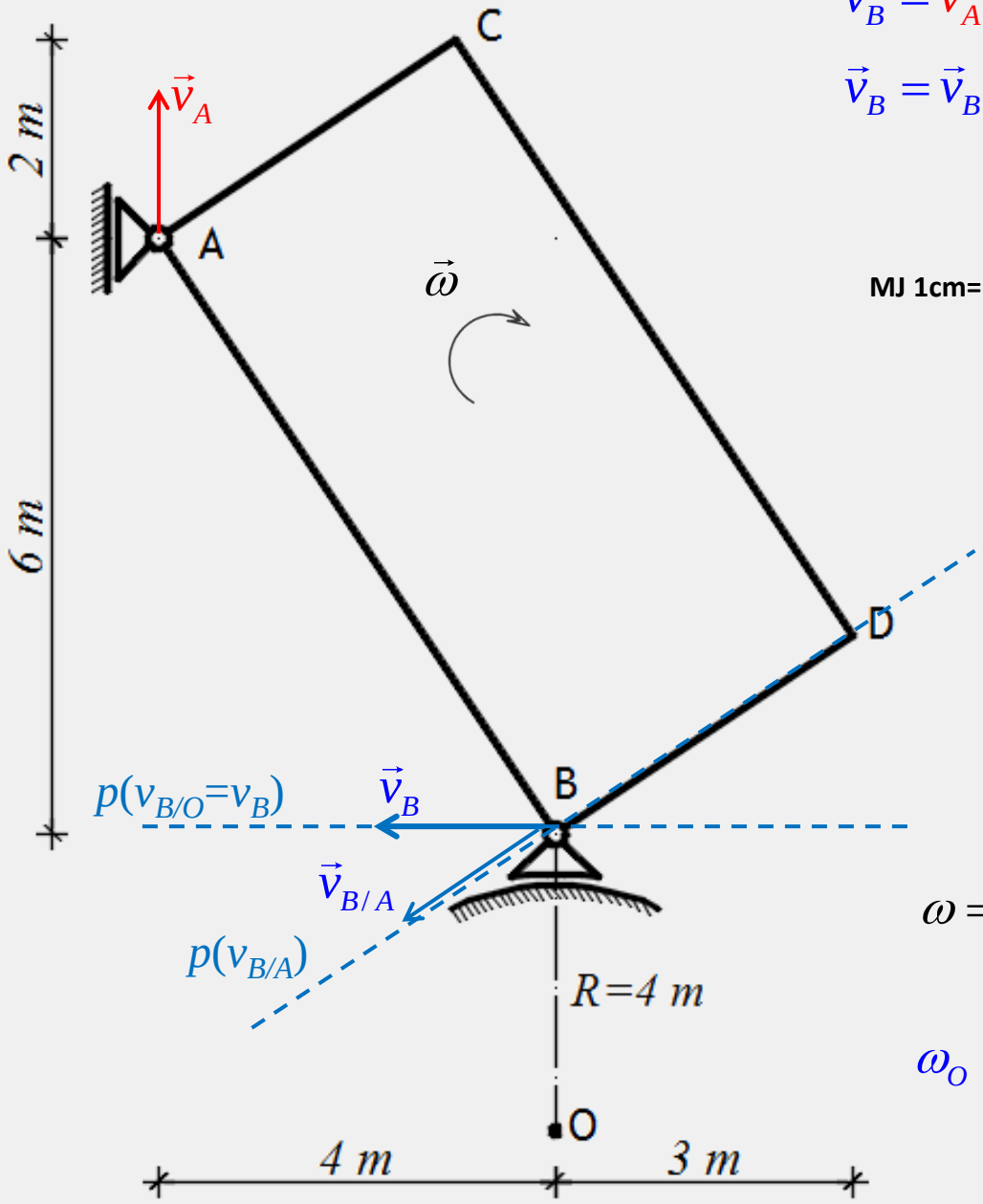
$v_B = 6\ cm = 6\ m/s$

$\vec{v}_B = -6\vec{i}$

$$\omega = \frac{v_{B/A}}{AB} = \frac{7,2}{7,2} = 1\ r/s \qquad \vec{\omega} = -\vec{k}$$

$$\omega_O = \frac{v_B}{R} = \frac{6}{4} = 1,5\ r/s$$

BRZINE



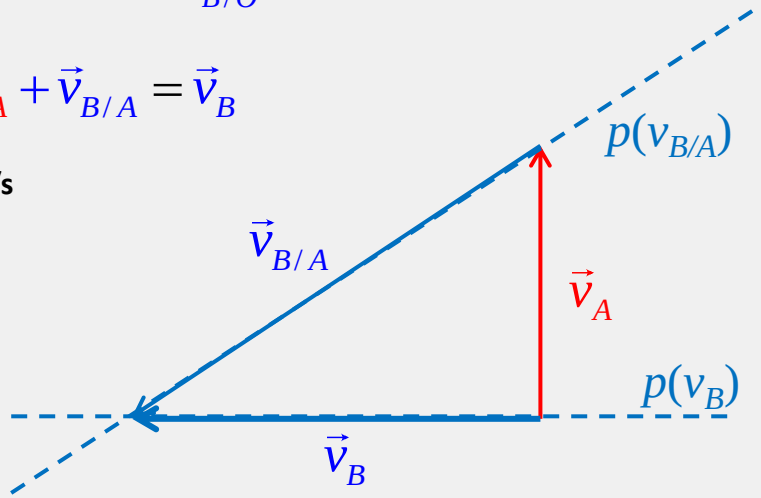
Brzina točke B

$$\vec{v}_B = \vec{v}_A + \vec{v}_{B/A} \qquad \vec{v}_{B/A} \perp \overline{AB}$$

$$\vec{v}_B = \vec{v}_{B/O} \qquad \vec{v}_{B/O} \perp \overline{BO}$$

$$\vec{v}_A + \vec{v}_{B/A} = \vec{v}_B$$

MJ 1cm=1m/s



očitano: $v_{B/A} = 7,2\ cm = 7,2\ m/s$

$v_B = 6\ cm = 6\ m/s$

$\vec{v}_B = -6\vec{i}$

$$\omega = \frac{v_{B/A}}{AB} = \frac{7,2}{7,2} = 1\ r/s \qquad \vec{\omega} = -\vec{k}$$

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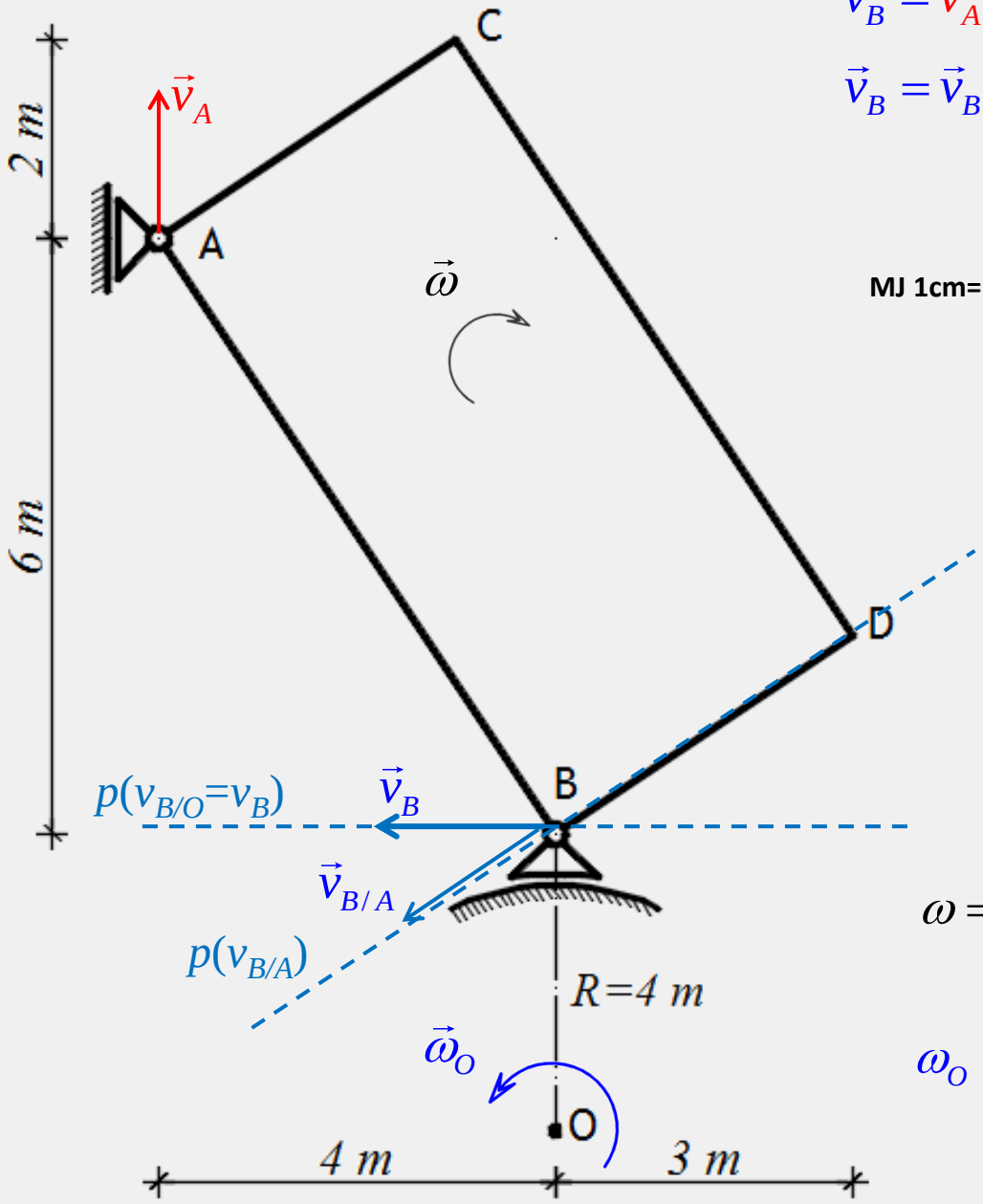
BRZINE



Brzina točke B

$$\vec{v}_B = \vec{v}_A + \vec{v}_{B/A} \qquad \vec{v}_{B/A} \perp \overline{AB}$$

$$\vec{v}_B = \vec{v}_{B/O} \qquad \vec{v}_{B/O} \perp \overline{BO}$$

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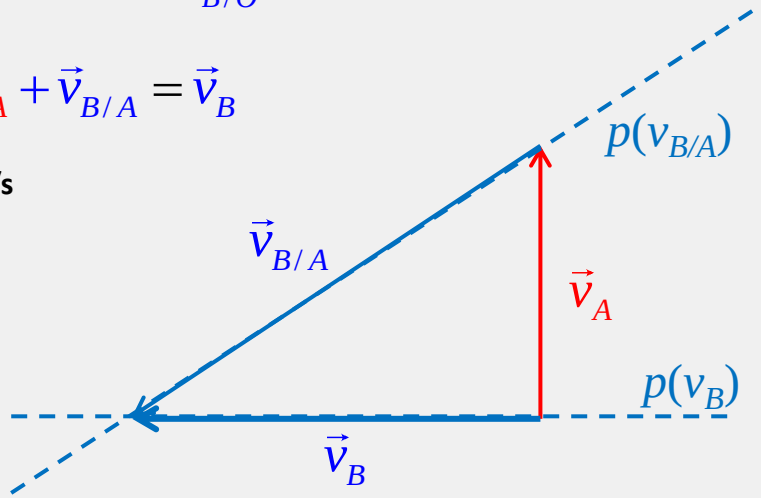
MJ 1cm=1m/s



očitano: $v_{B/A} = 7,2\ cm = 7,2\ m/s$

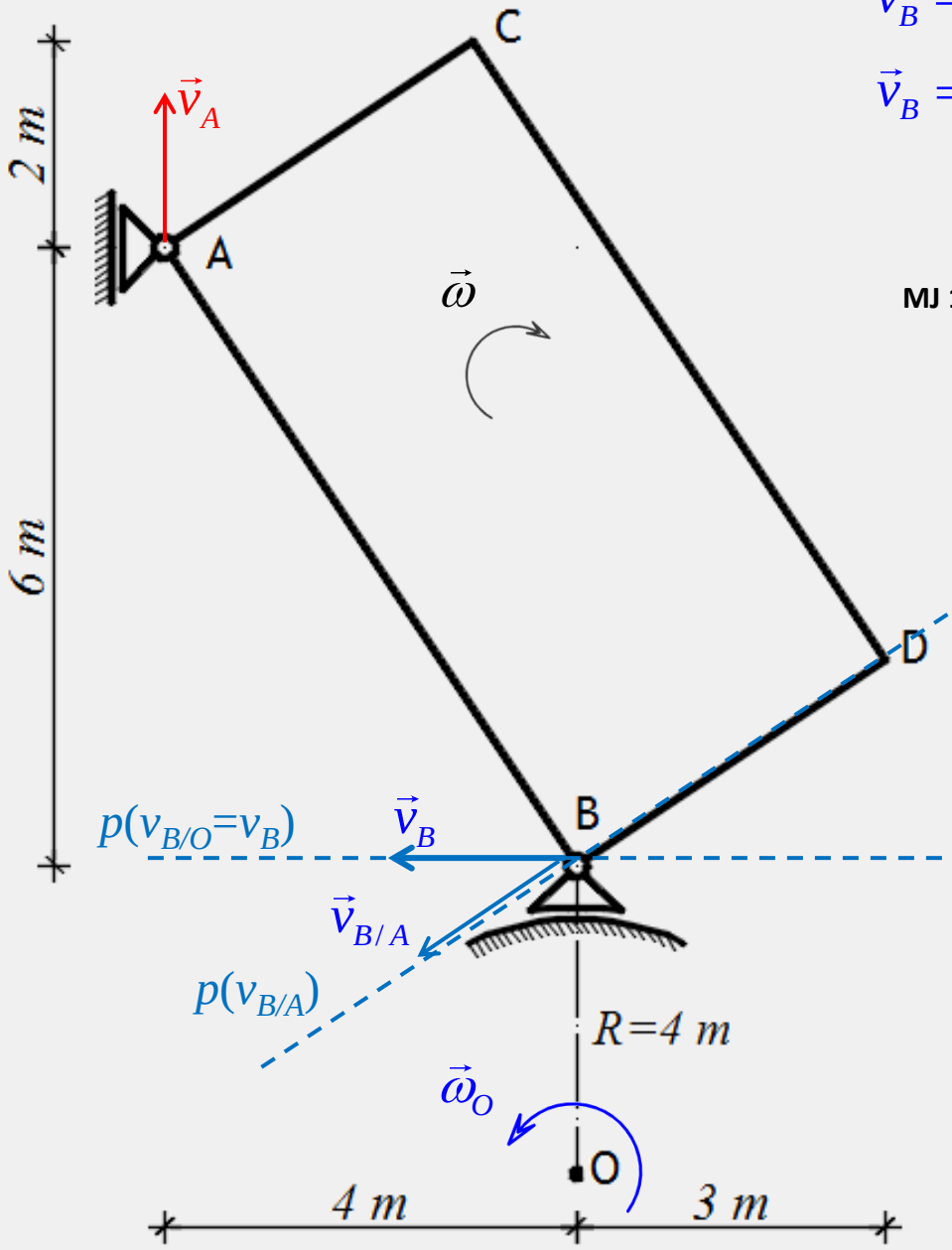
$v_B = 6\ cm = 6\ m/s$

$\vec{v}_B = -6\vec{i}$

$$\omega = \frac{v_{B/A}}{AB} = \frac{7,2}{7,2} = 1\ r/s \qquad \vec{\omega} = -\vec{k}$$

$$\omega_O = \frac{v_B}{R} = \frac{6}{4} = 1,5\ r/s$$

BRZINE



Brzina točke B

$$\vec{v}_B = \vec{v}_A + \vec{v}_{B/A} \qquad \vec{v}_{B/A} \perp \overline{AB}$$

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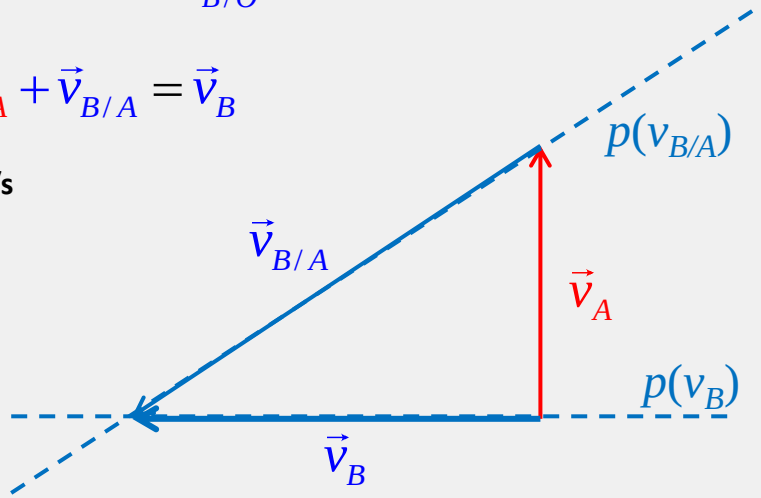

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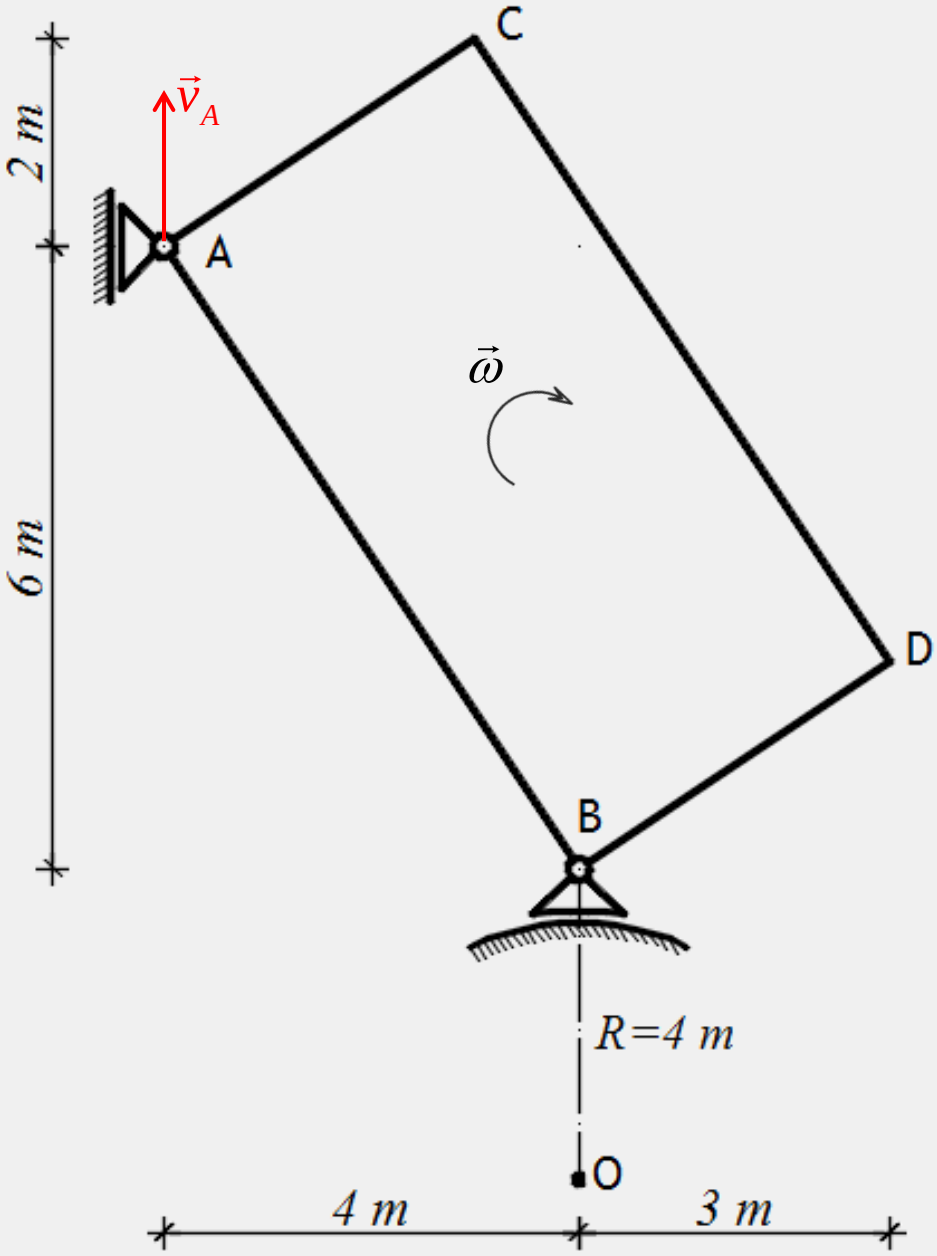
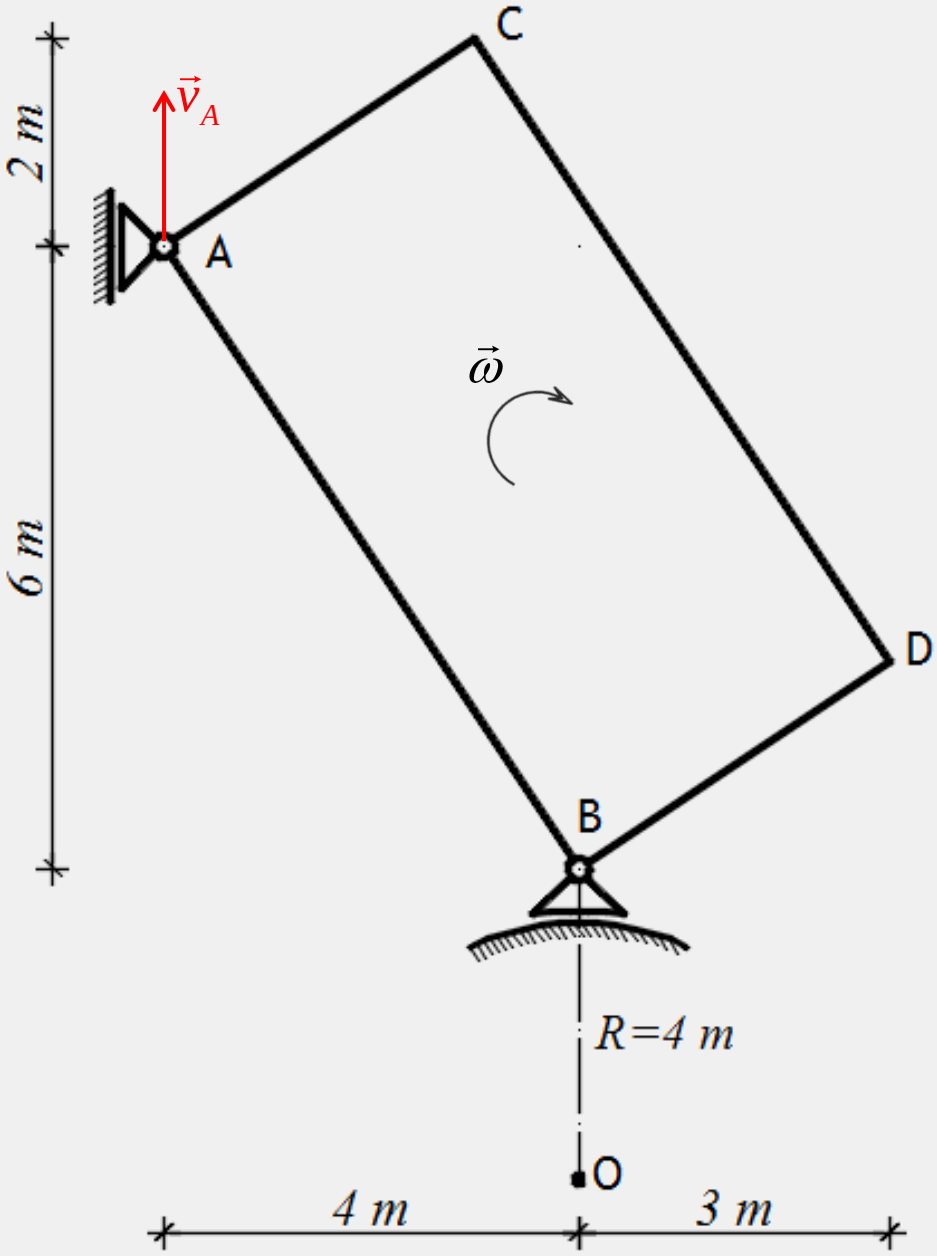
BRZINE



BRZINE

Brzina točke C

$$\vec{v}_C = \vec{v}_A + \vec{v}_{C/A}$$

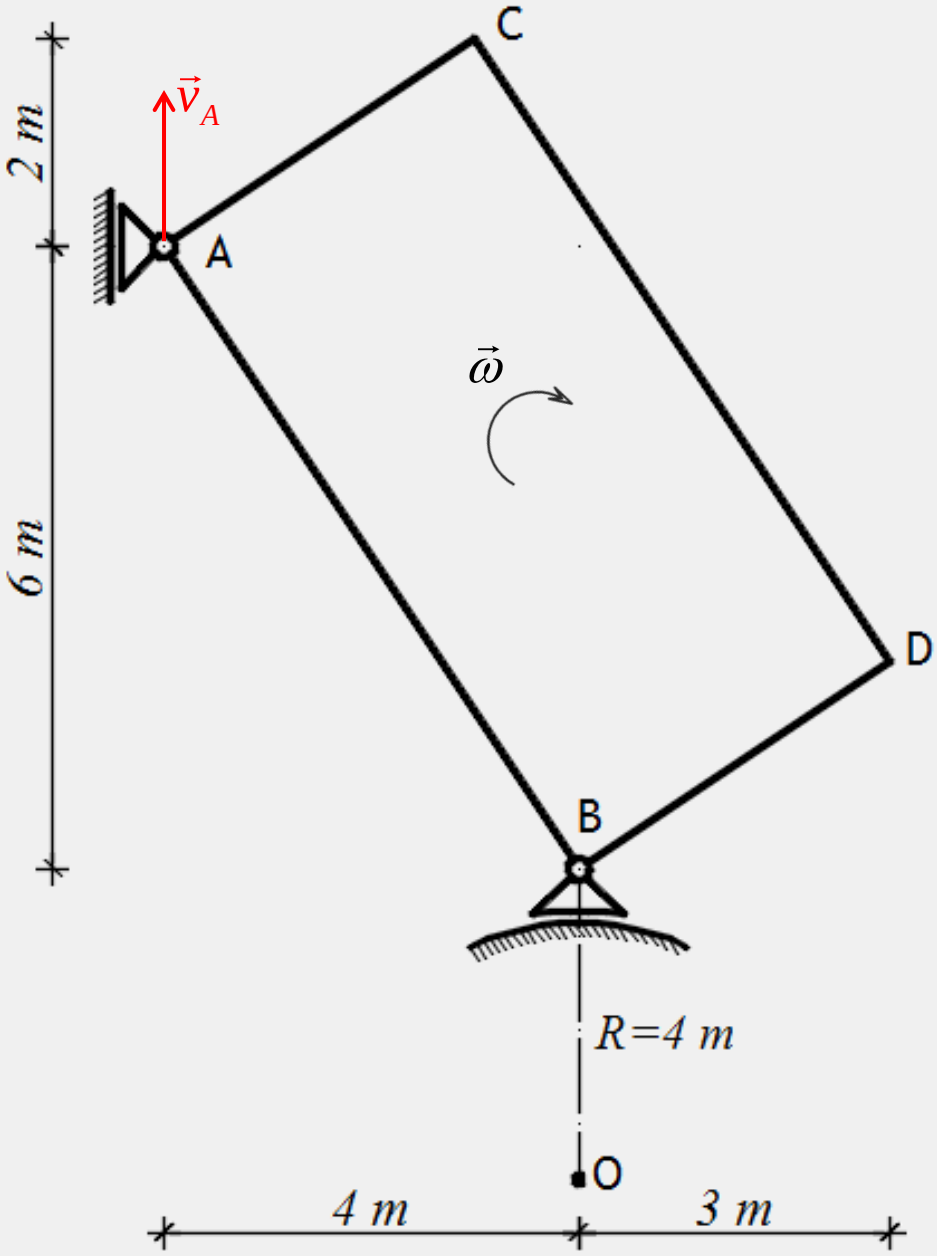


BRZINE

Brzina točke C

$$\vec{v}_C = \vec{v}_A + \vec{v}_{C/A}$$

$$\vec{v}_C = 4\vec{j}$$



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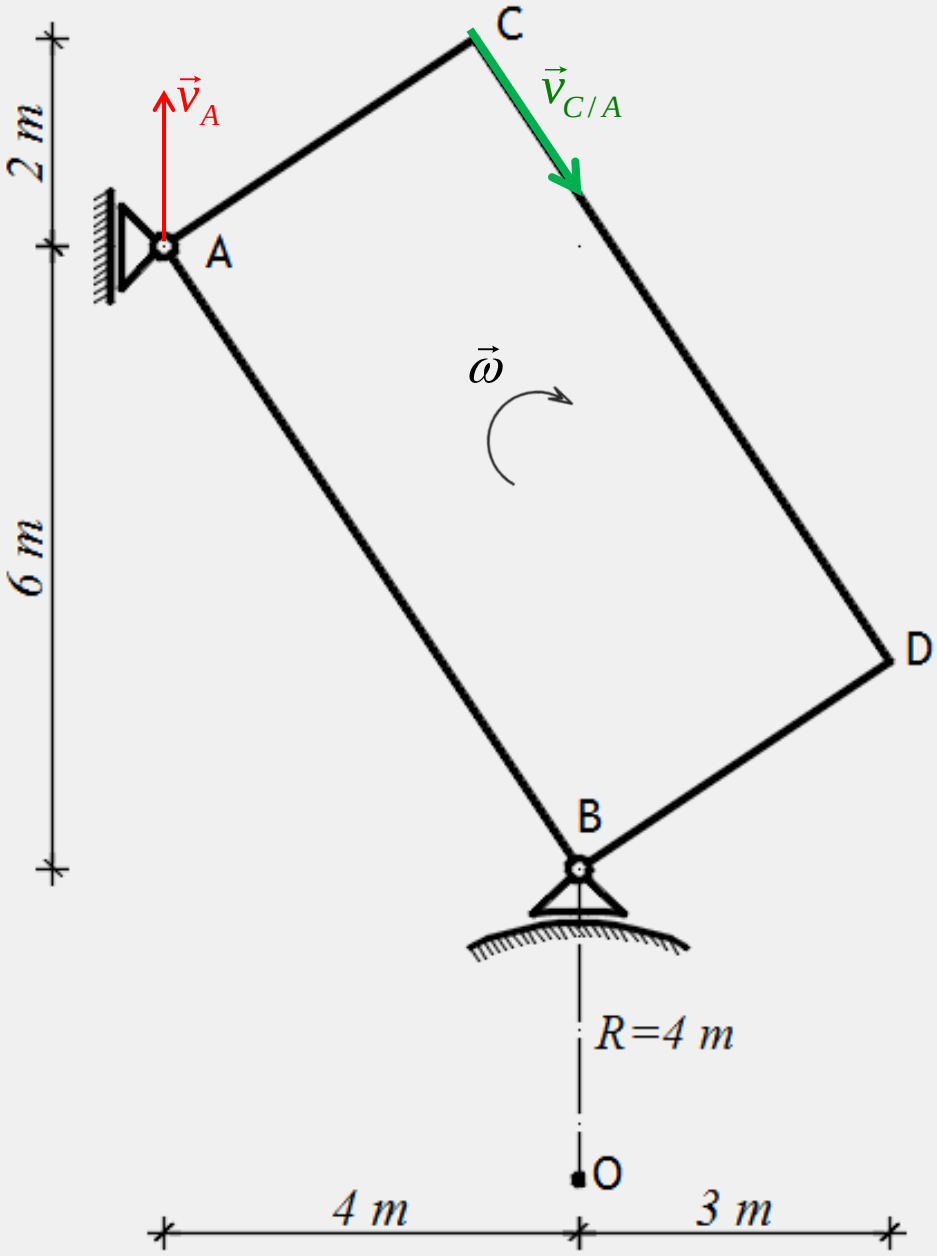
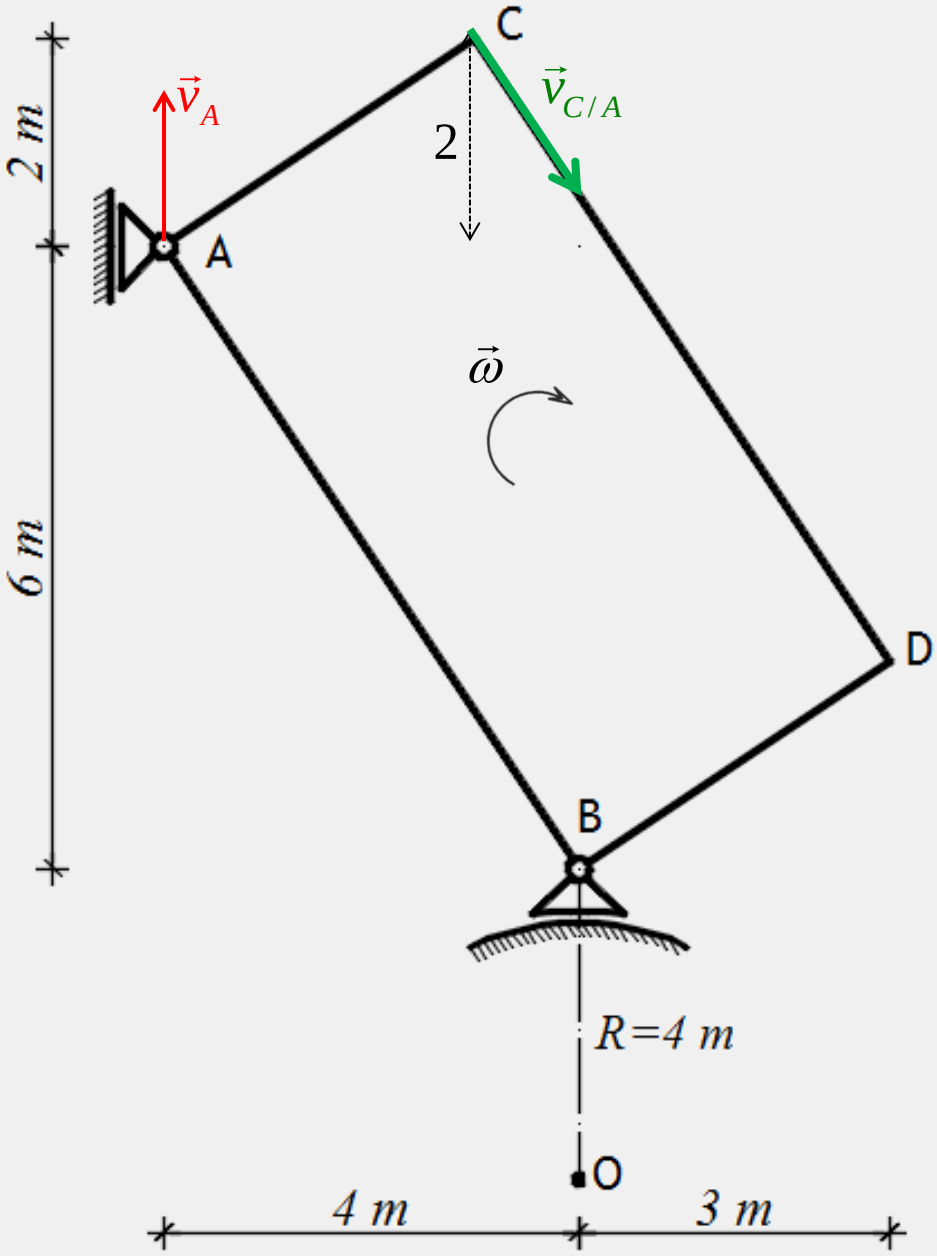


BRZINE

Brzina točke C

$$\vec{v}_C = \vec{v}_A + \vec{v}_{C/A}$$

$$\vec{v}_C = 4\vec{j}$$

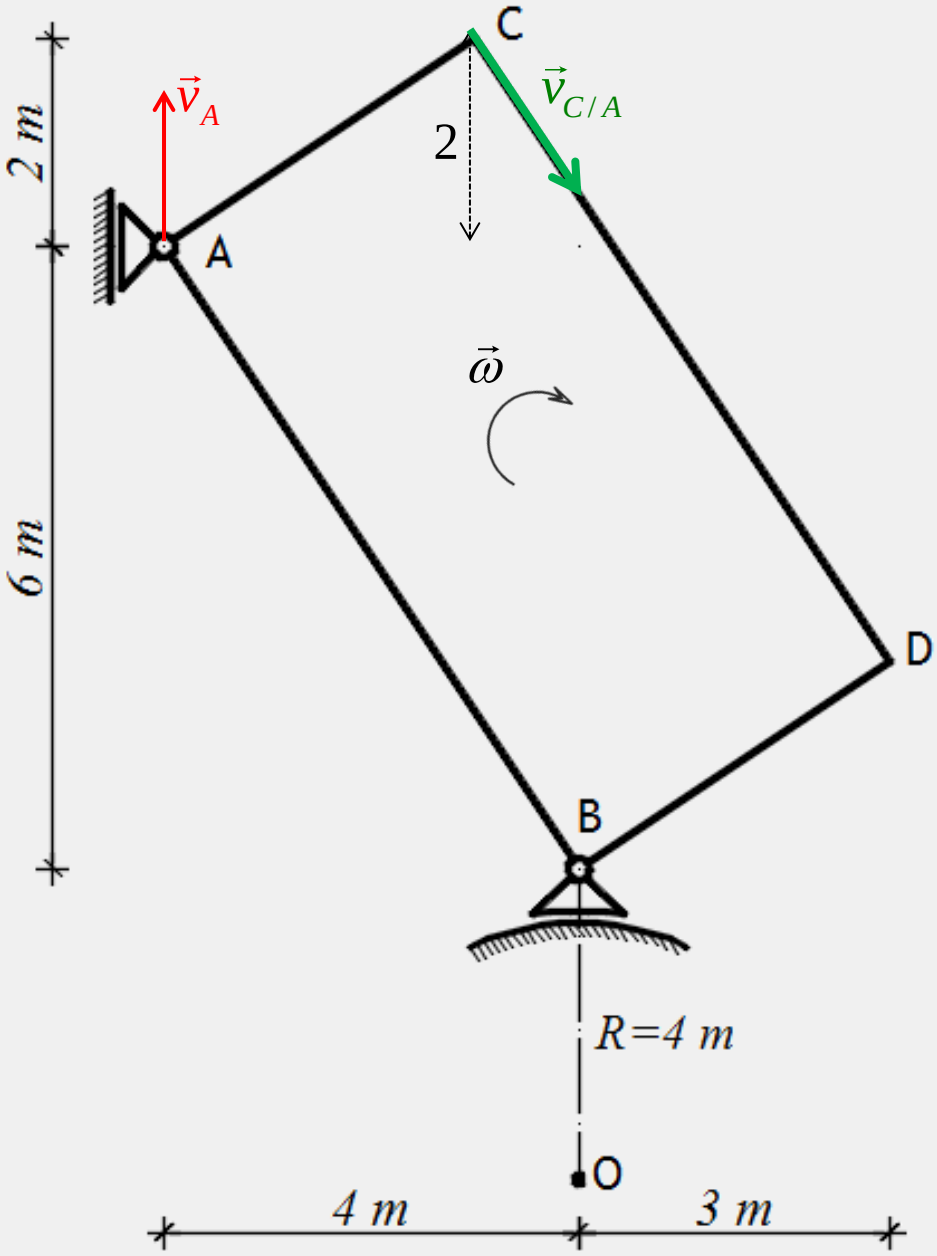


BRZINE

Brzina točke C

$$\vec{v}_C = \vec{v}_A + \vec{v}_{C/A}$$

$$\vec{v}_C = 4\vec{j} + 2\omega\vec{i}$$



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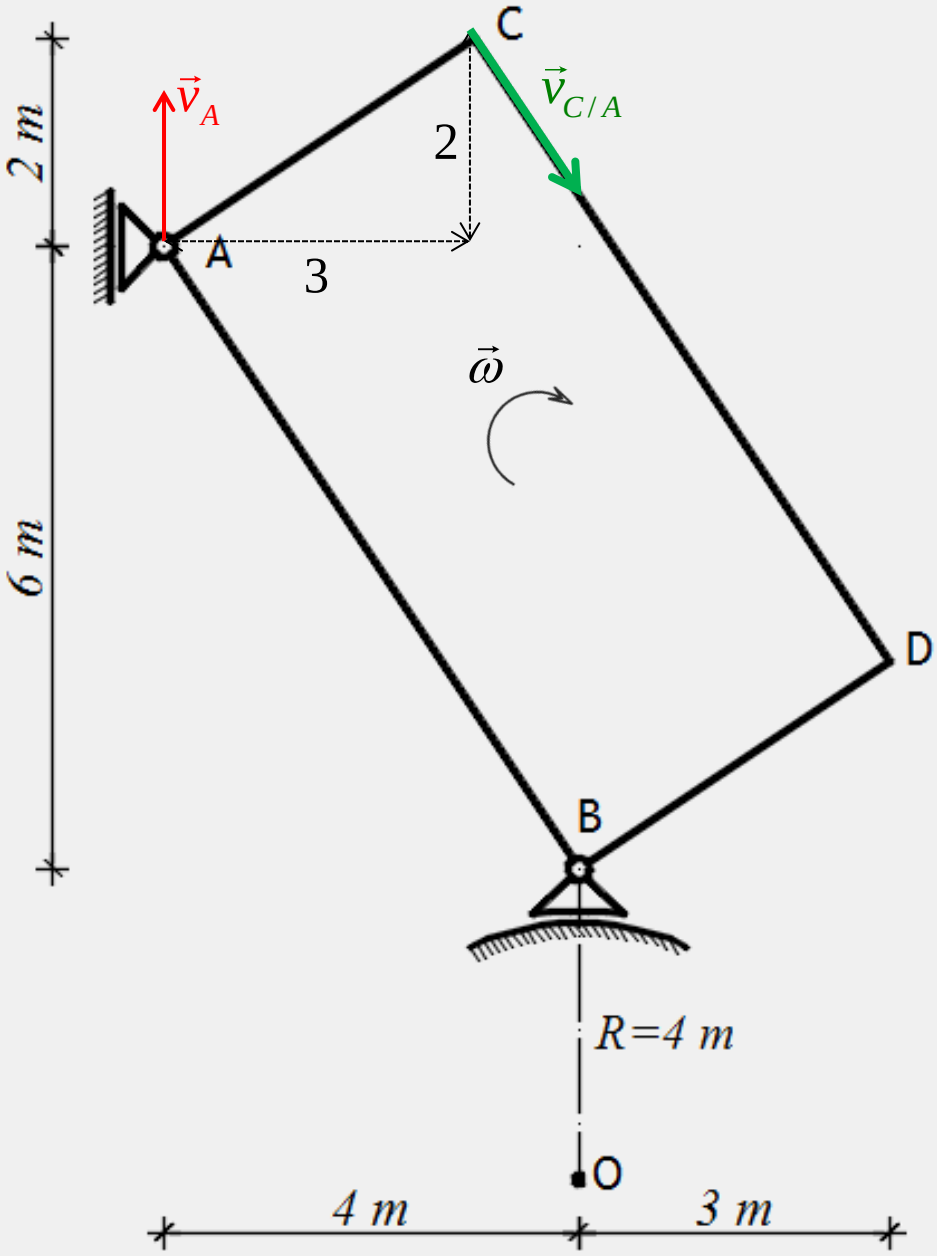
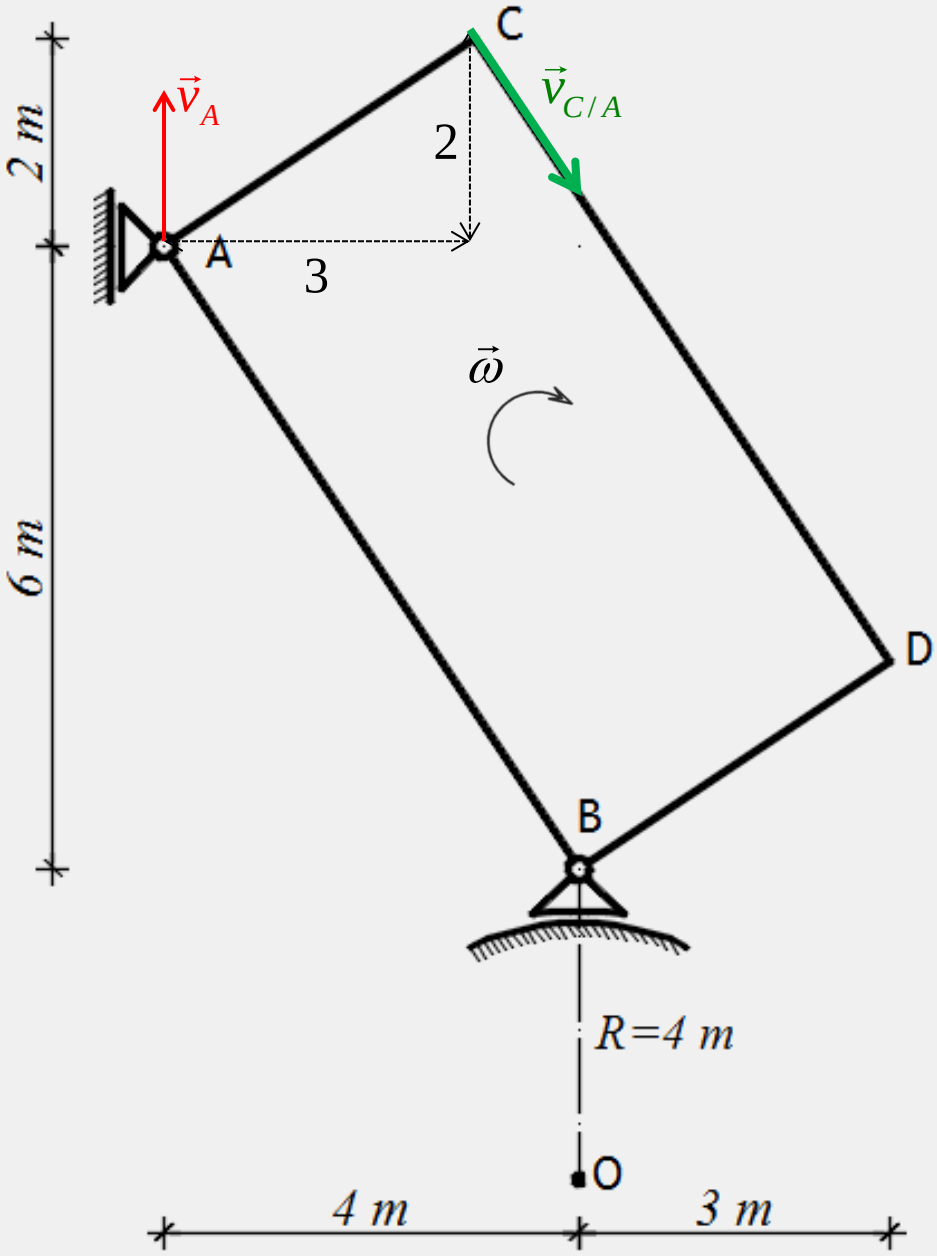


BRZINE

Brzina točke C

$$\vec{v}_C = \vec{v}_A + \vec{v}_{C/A}$$

$$\vec{v}_C = 4\vec{j} + 2\omega\vec{i} - 3\omega\vec{j}$$



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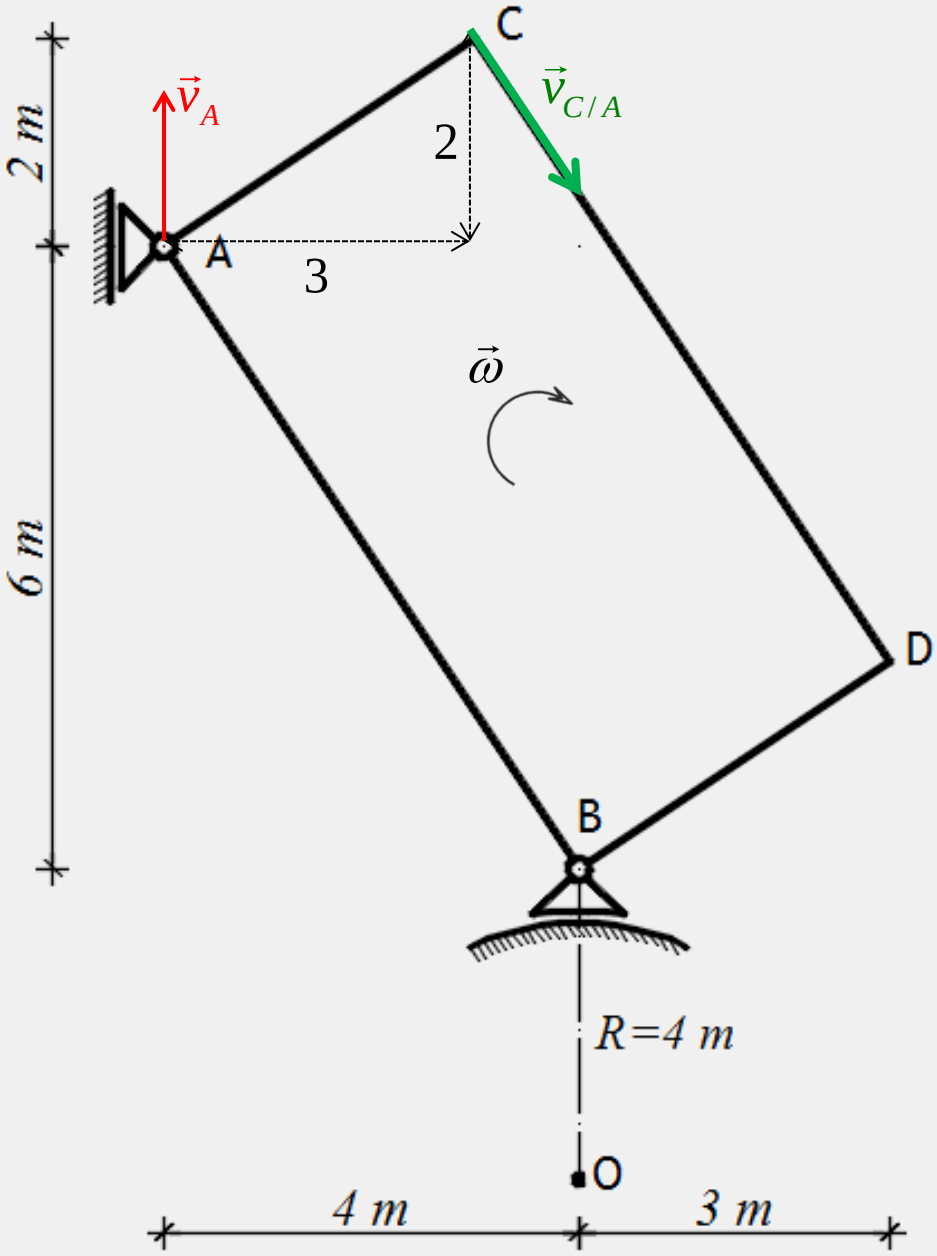


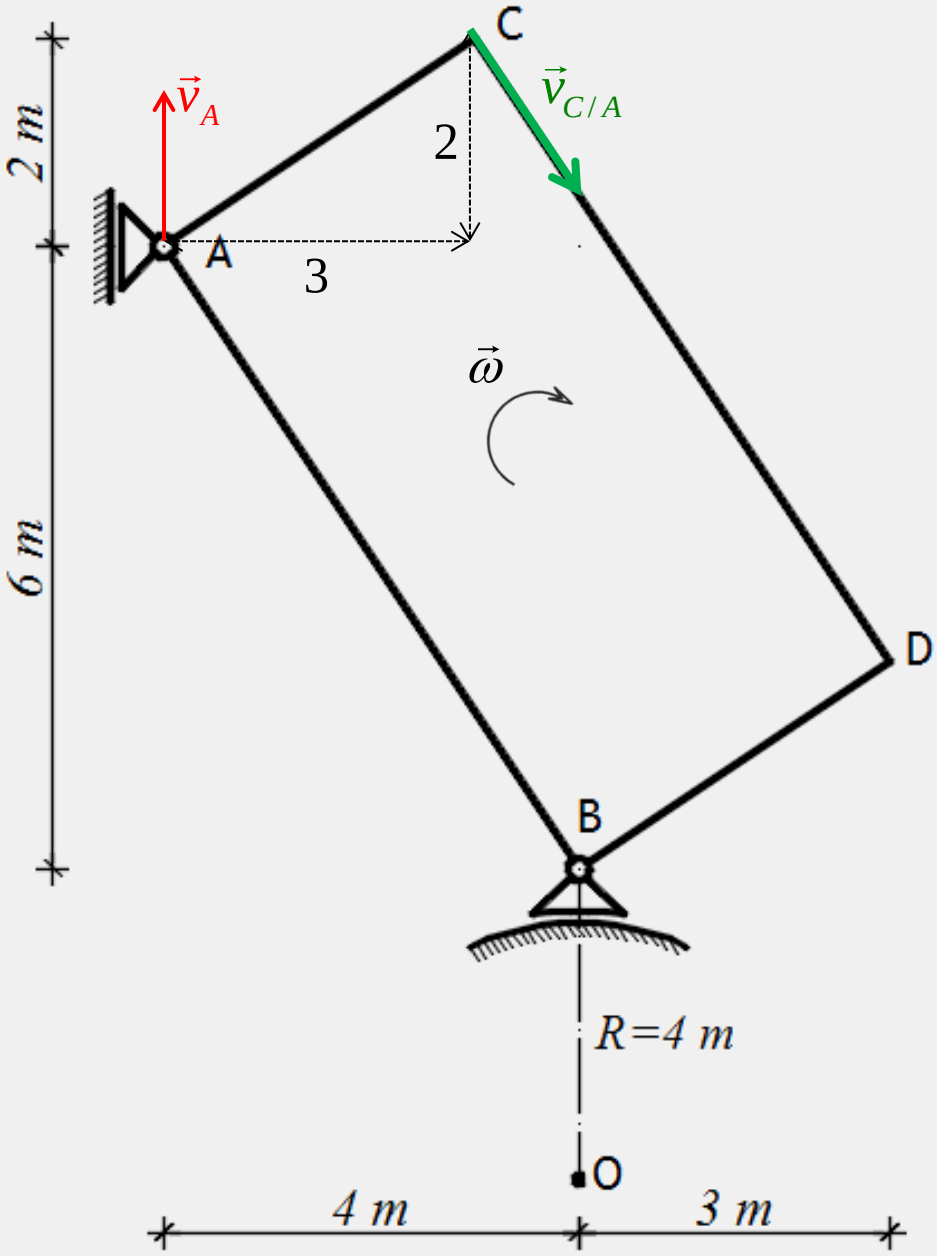
Brzina točke C

$$\vec{v}_C = \vec{v}_A + \vec{v}_{C/A}$$

$$\vec{v}_C = 4\vec{j} + 2\omega\vec{i} - 3\omega\vec{j}$$

$$\vec{v}_C = 2\vec{i} - \vec{j}$$

BRZINE



Brzina točke C

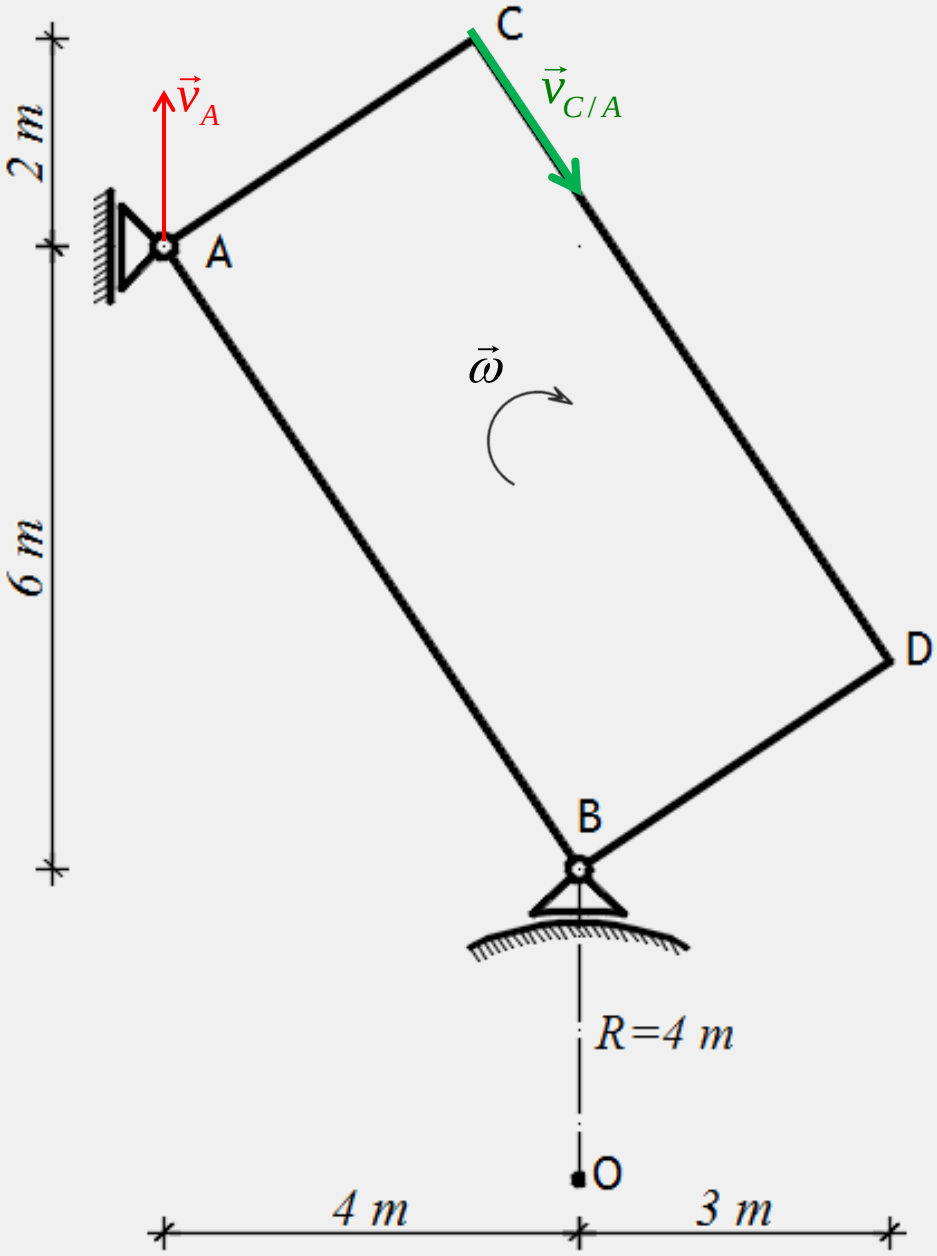
$$\vec{v}_C = \vec{v}_A + \vec{v}_{C/A}$$

$$\vec{v}_C = 4\vec{j} + 2\omega\vec{i} - 3\omega\vec{j}$$

$$\vec{v}_C = 2\vec{i} - \vec{j}$$

$$v_C = \sqrt{2^2 + 1^2} = 2,236\ m/s$$

BRZINE



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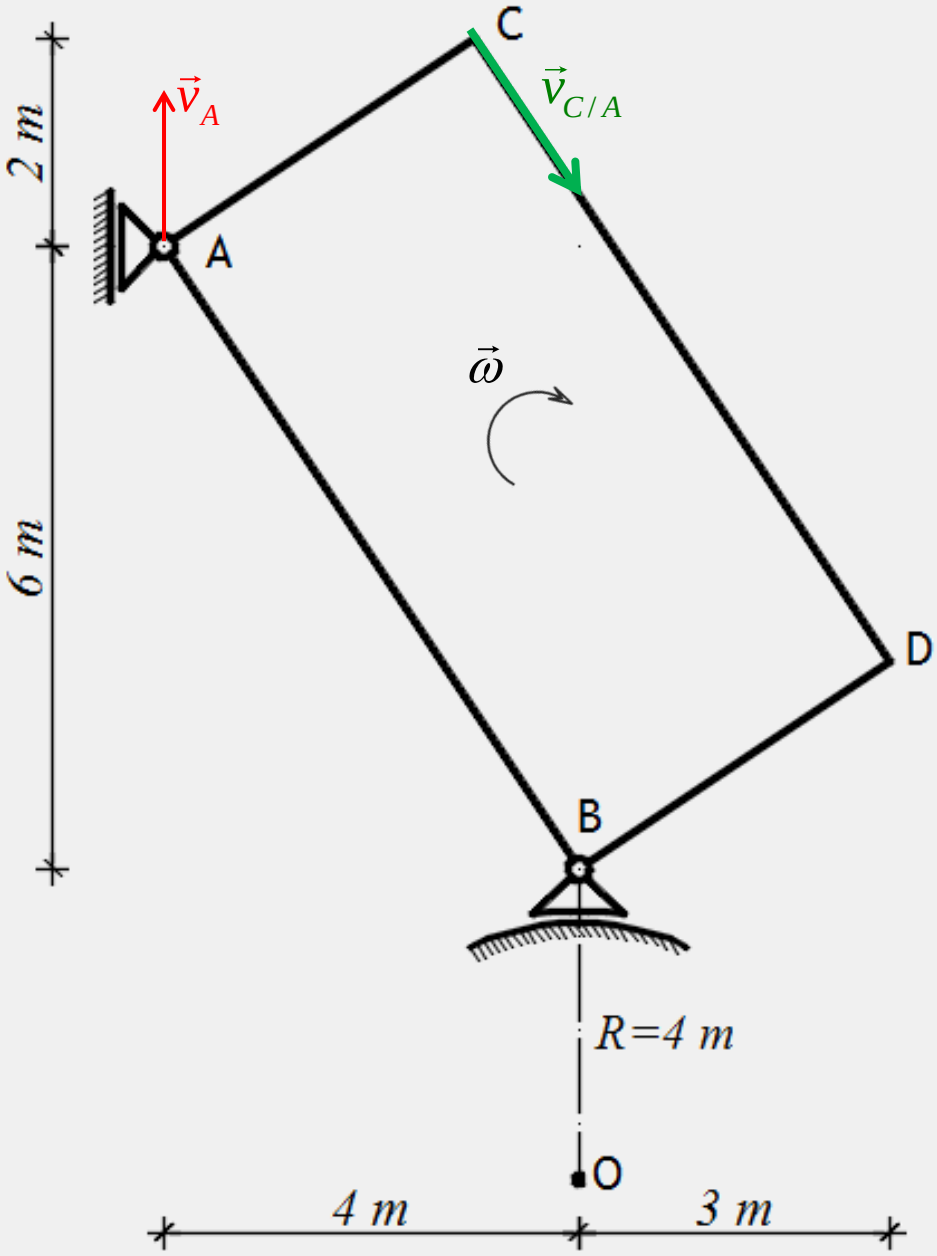

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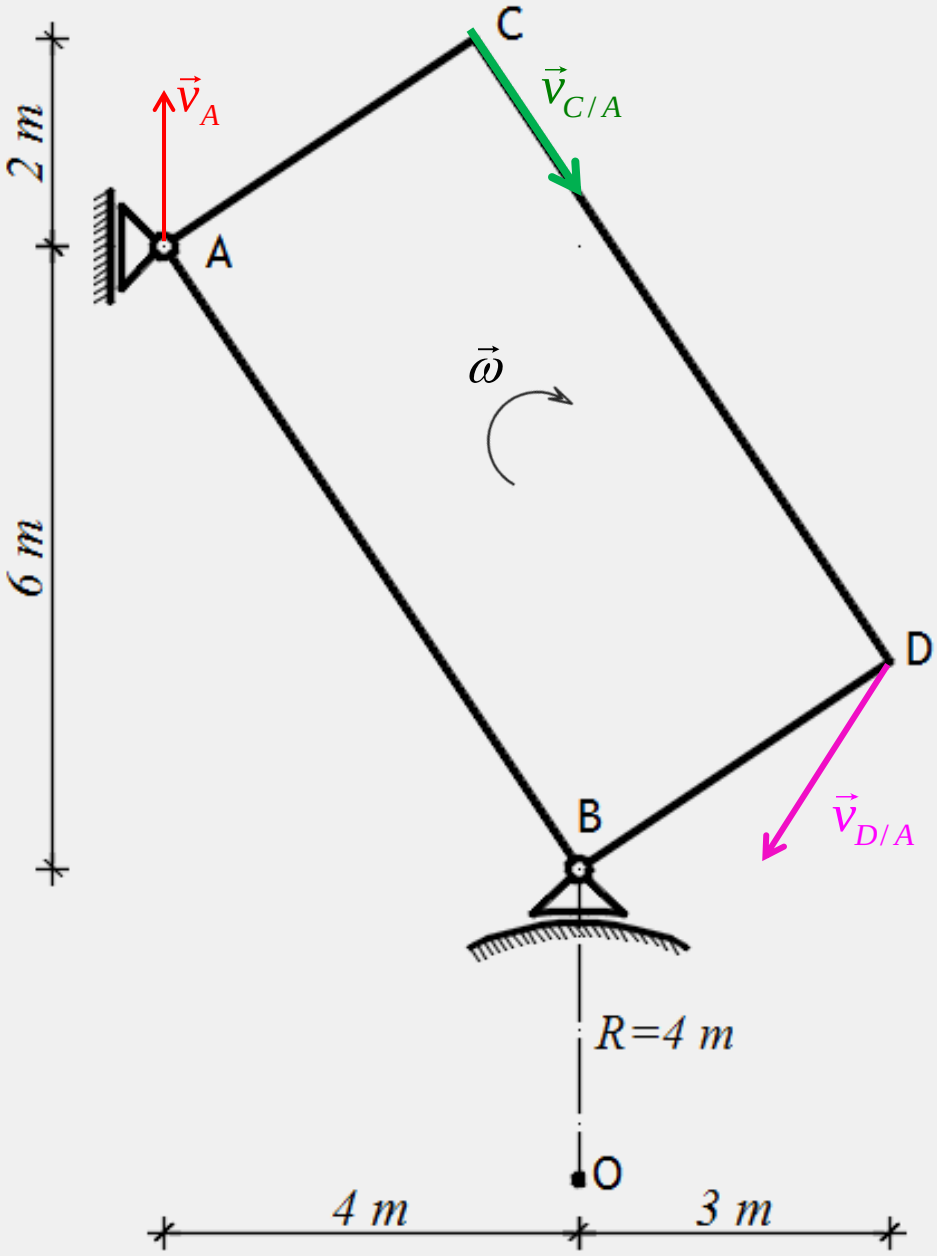
$$v_C = \sqrt{2^2 + 1^2} = 2,236\ m/s$$

Brzina točke D

$$\vec{v}_D = \vec{v}_A + \vec{v}_{D/A}$$

BRZINE



Brzina točke C

$$\vec{v}_C = \vec{v}_A + \vec{v}_{C/A}$$

$$\vec{v}_C = 4\vec{j} + 2\omega\vec{i} - 3\omega\vec{j}$$

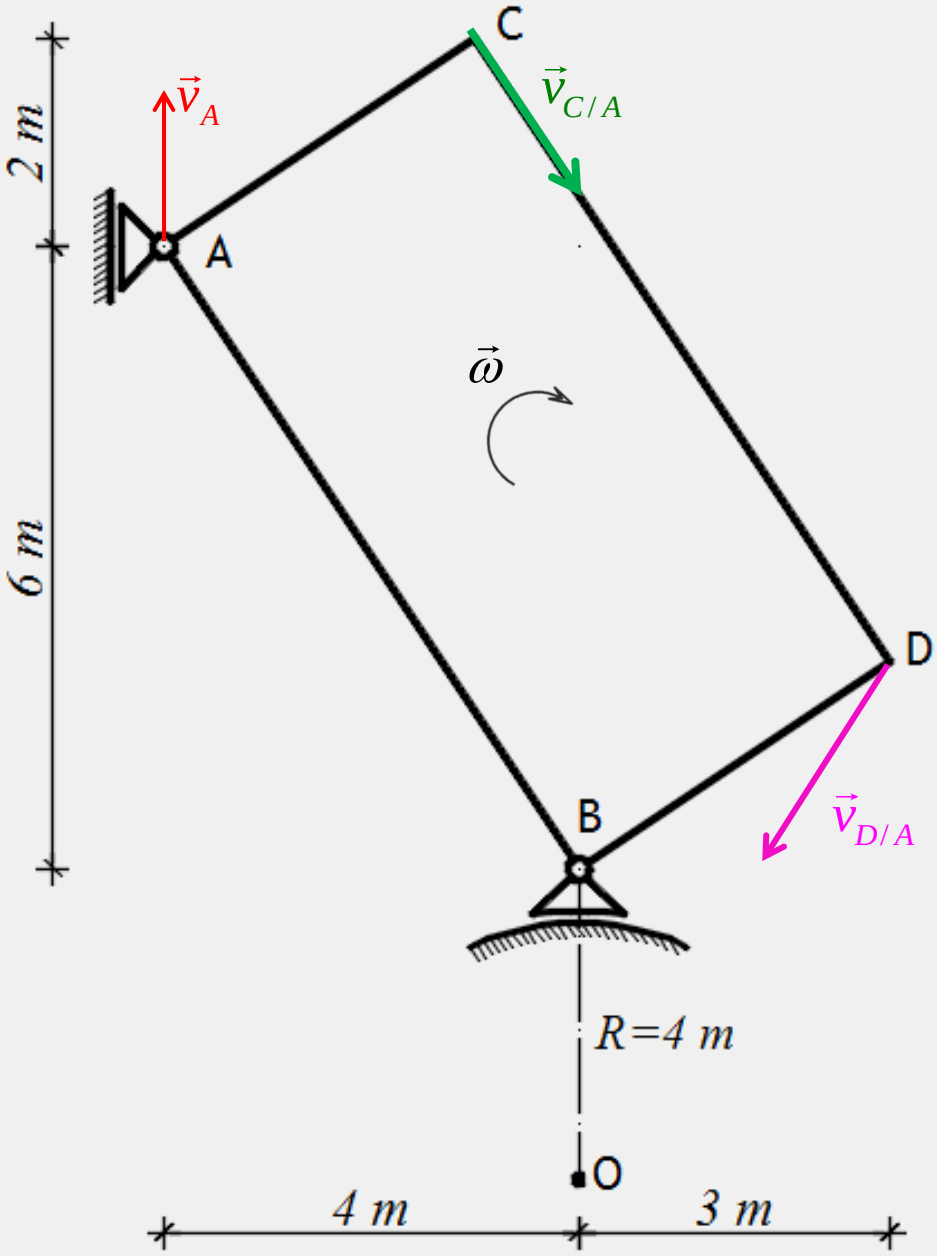
$$\vec{v}_C = 2\vec{i} - \vec{j}$$

$$v_C = \sqrt{2^2 + 1^2} = 2,236\ m/s$$

Brzina točke D

$$\vec{v}_D = \vec{v}_A + \vec{v}_{D/A}$$

BRZINE



Brzina točke C

$$\vec{v}_C = \vec{v}_A + \vec{v}_{C/A}$$

$$\vec{v}_C = 4\vec{j} + 2\omega\vec{i} - 3\omega\vec{j}$$

$$\vec{v}_C = 2\vec{i} - \vec{j}$$

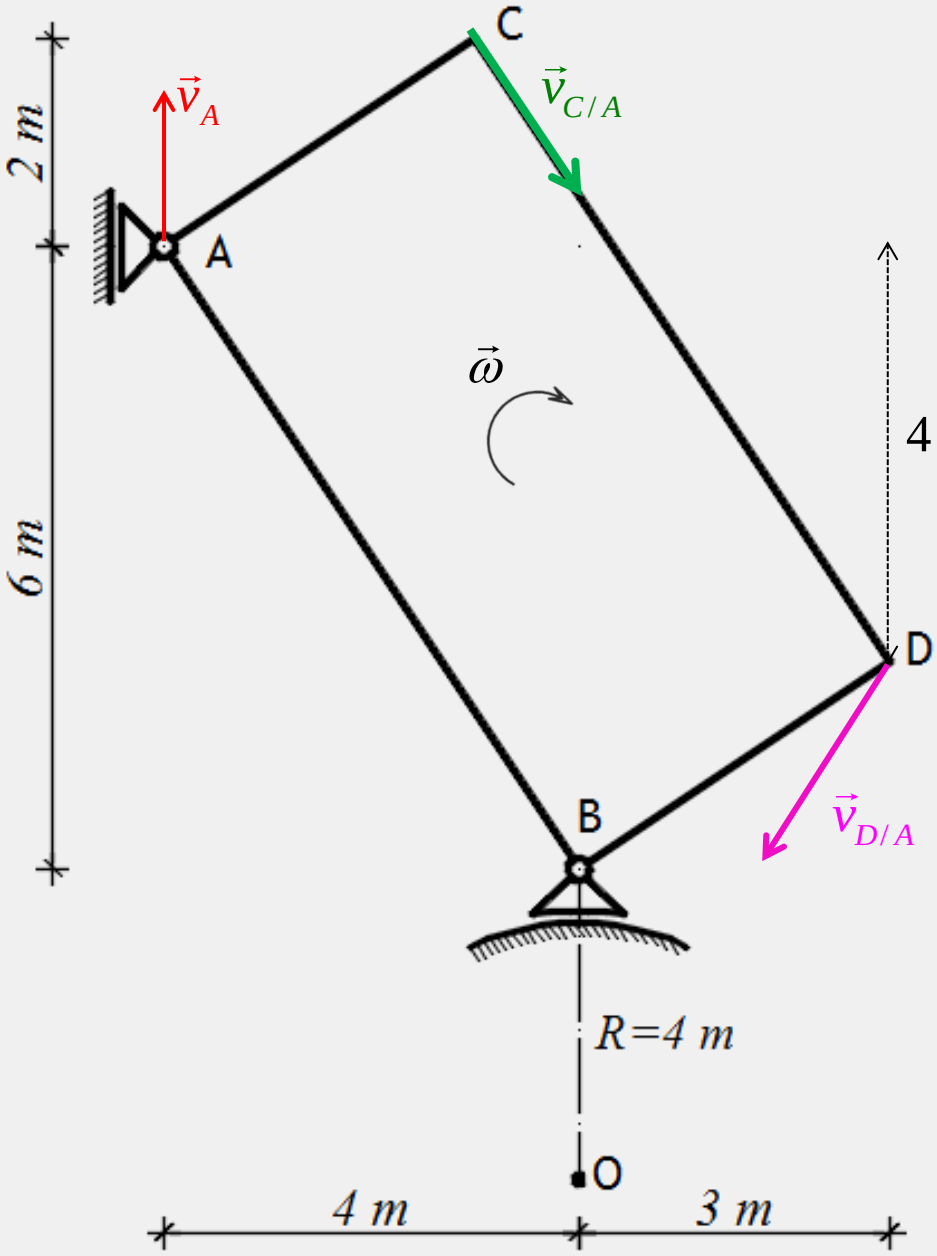
$$v_C = \sqrt{2^2 + 1^2} = 2,236\ m/s$$

Brzina točke D

$$\vec{v}_D = \vec{v}_A + \vec{v}_{D/A}$$

$$\vec{v}_D = 4\vec{j}$$

BRZINE



Brzina točke C

$$\vec{v}_C = \vec{v}_A + \vec{v}_{C/A}$$

$$\vec{v}_C = 4\vec{j} + 2\omega\vec{i} - 3\omega\vec{j}$$

$$\vec{v}_C = 2\vec{i} - \vec{j}$$

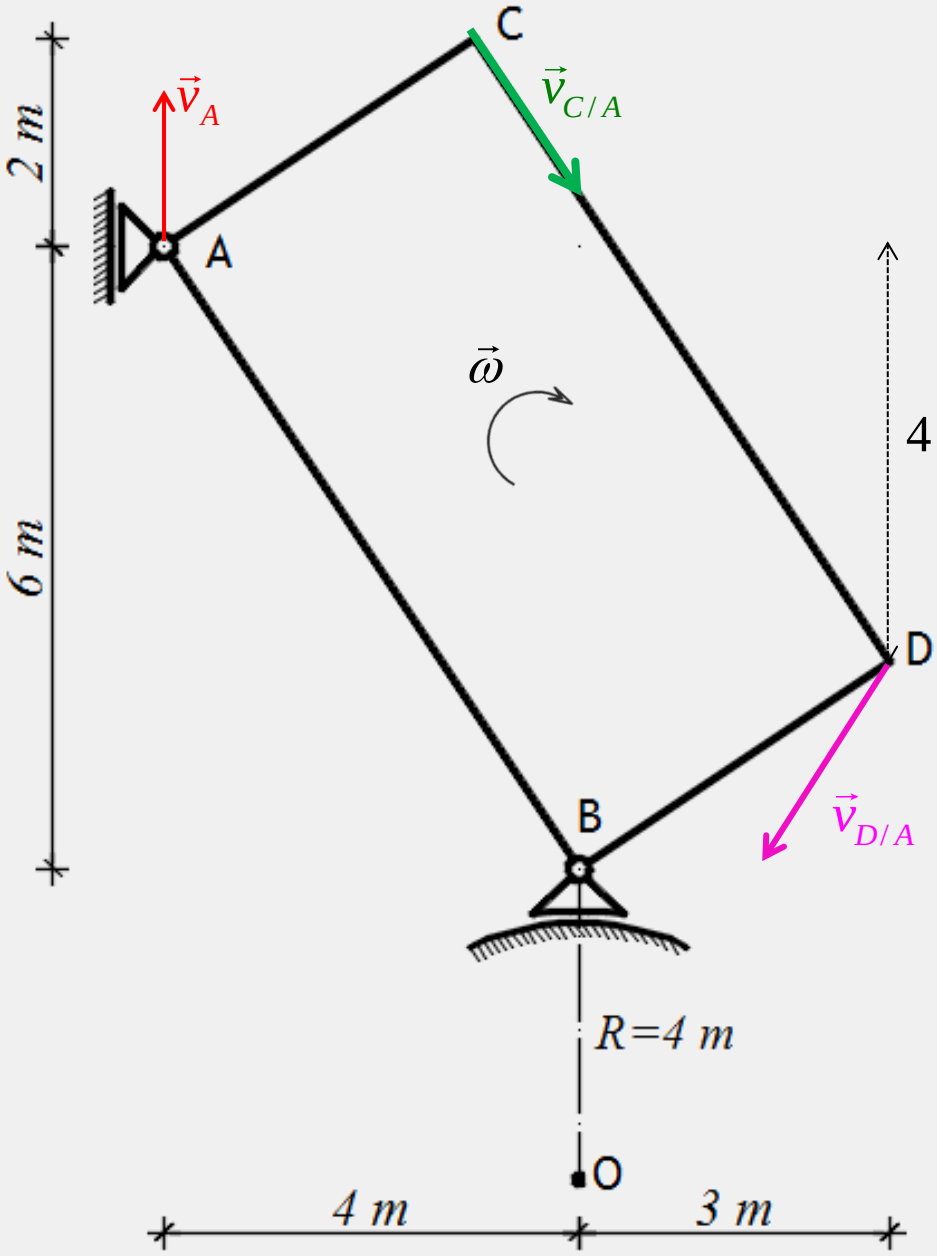
$$v_C = \sqrt{2^2 + 1^2} = 2,236\ m/s$$

Brzina točke D

$$\vec{v}_D = \vec{v}_A + \vec{v}_{D/A}$$

$$\vec{v}_D = 4\vec{j}$$

BRZINE



Brzina točke C

$$\vec{v}_C = \vec{v}_A + \vec{v}_{C/A}$$

$$\vec{v}_C = 4\vec{j} + 2\omega\vec{i} - 3\omega\vec{j}$$

$$\vec{v}_C = 2\vec{i} - \vec{j}$$

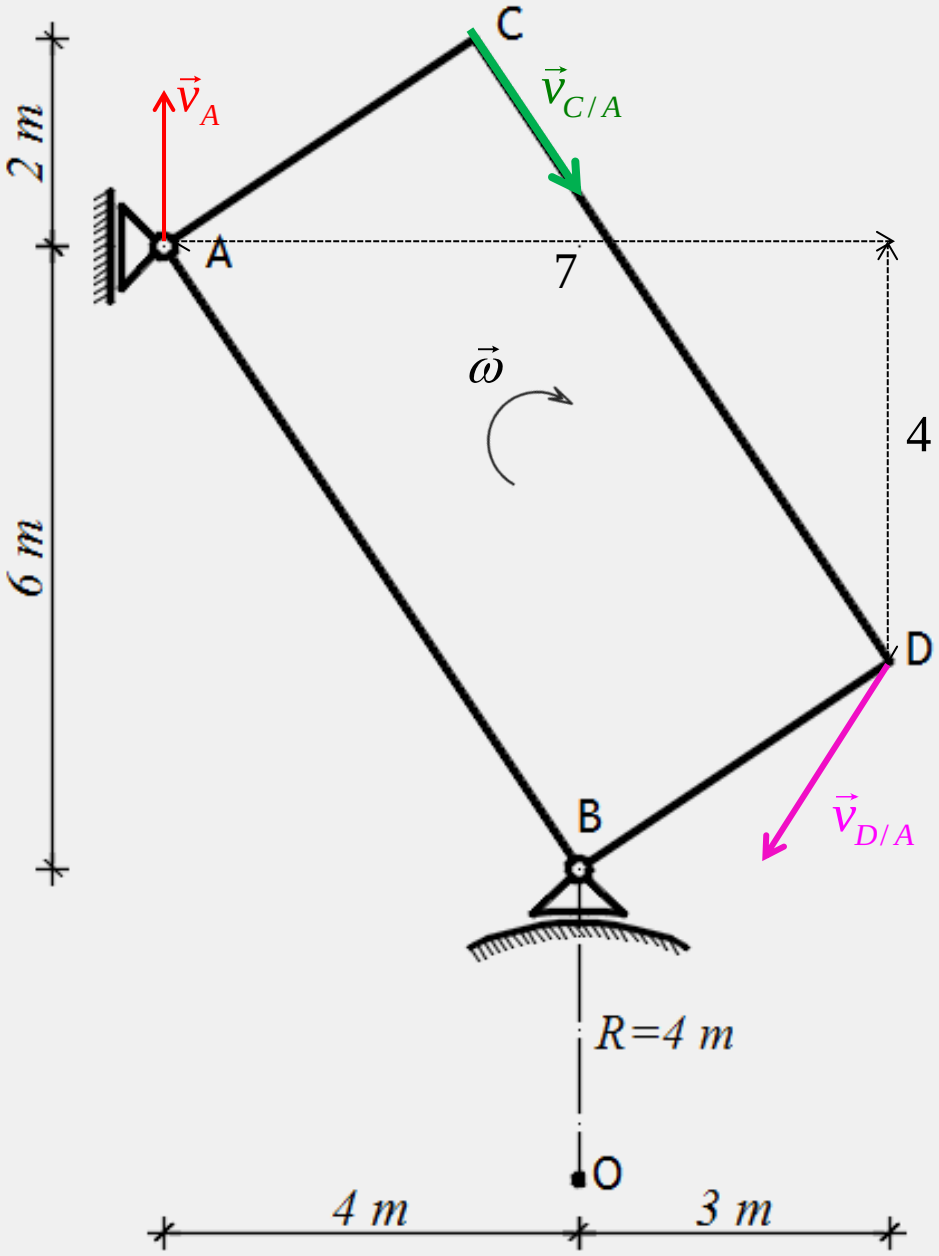
$$v_C = \sqrt{2^2 + 1^2} = 2,236\ m/s$$

Brzina točke D

$$\vec{v}_D = \vec{v}_A + \vec{v}_{D/A}$$

$$\vec{v}_D = 4\vec{j} - 4\omega\vec{i}$$

BRZINE



Brzina točke C

$$\vec{v}_C = \vec{v}_A + \vec{v}_{C/A}$$

$$\vec{v}_C = 4\vec{j} + 2\omega\vec{i} - 3\omega\vec{j}$$

$$\vec{v}_C = 2\vec{i} - \vec{j}$$

$$v_C = \sqrt{2^2 + 1^2} = 2,236\ m/s$$

Brzina točke D

$$\vec{v}_D = \vec{v}_A + \vec{v}_{D/A}$$

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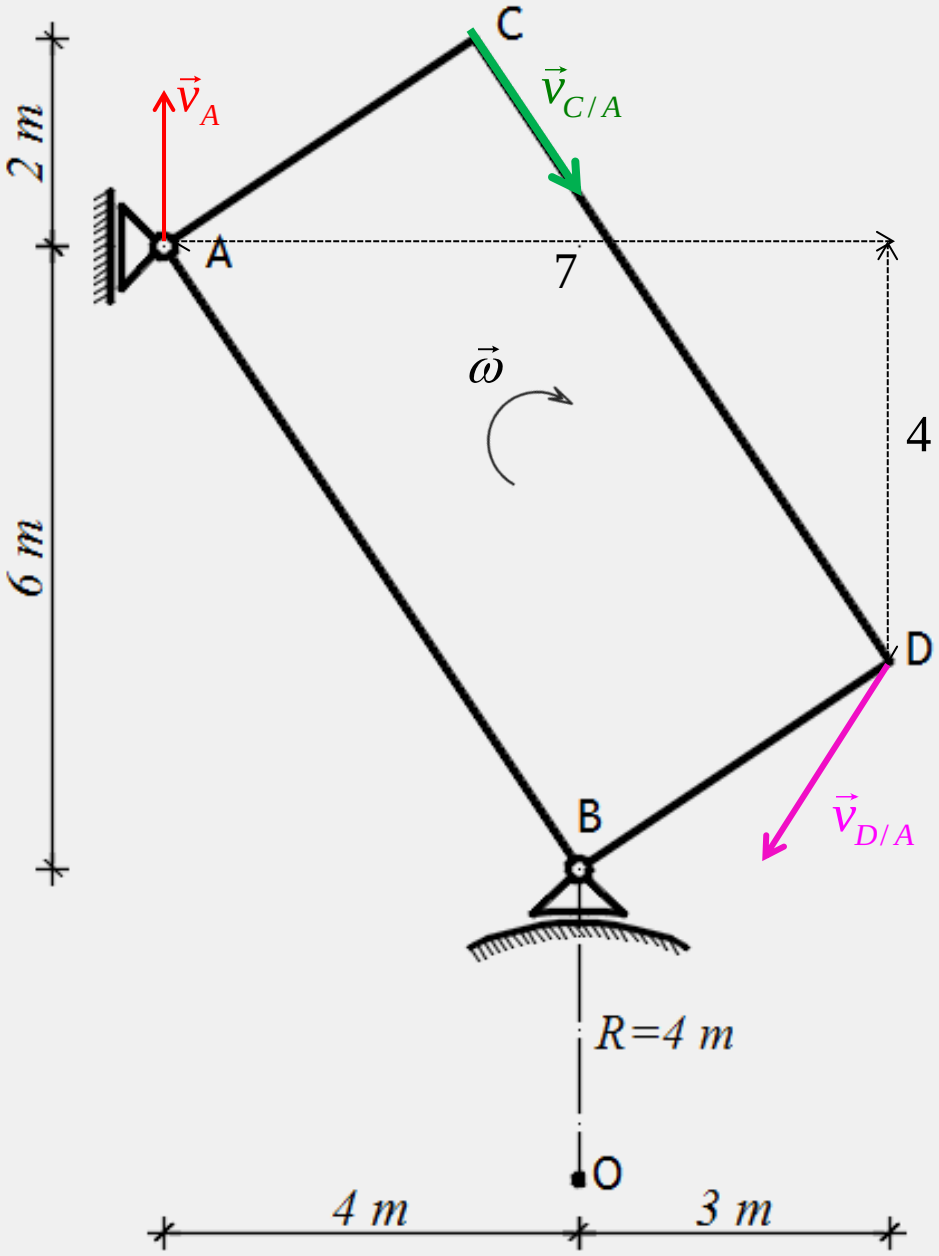
BRZINE



Brzina točke C

$$\vec{v}_C = \vec{v}_A + \vec{v}_{C/A}$$

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$$\vec{v}_C = 2\vec{i} - \vec{j}$$

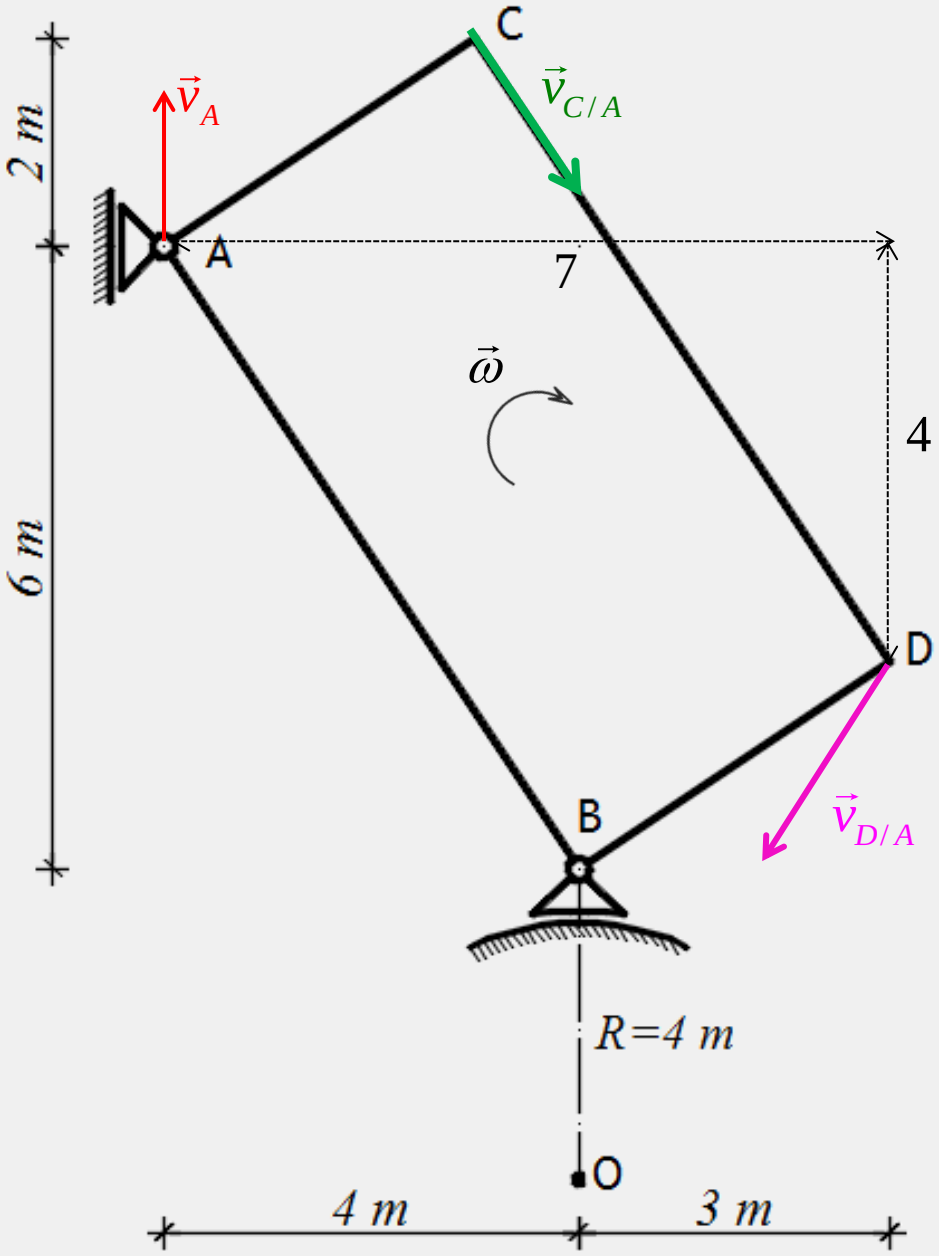
$$v_C = \sqrt{2^2 + 1^2} = 2,236\ m/s$$

Brzina točke D

$$\vec{v}_D = \vec{v}_A + \vec{v}_{D/A}$$

$$\vec{v}_D = 4\vec{j} - 4\omega\vec{i} - 7\omega\vec{j}$$

BRZINE



Brzina točke C

$$\vec{v}_C = \vec{v}_A + \vec{v}_{C/A}$$

$$\vec{v}_C = 4\vec{j} + 2\omega\vec{i} - 3\omega\vec{j}$$

$$\vec{v}_C = 2\vec{i} - \vec{j}$$

$$v_C = \sqrt{2^2 + 1^2} = 2,236\ m/s$$

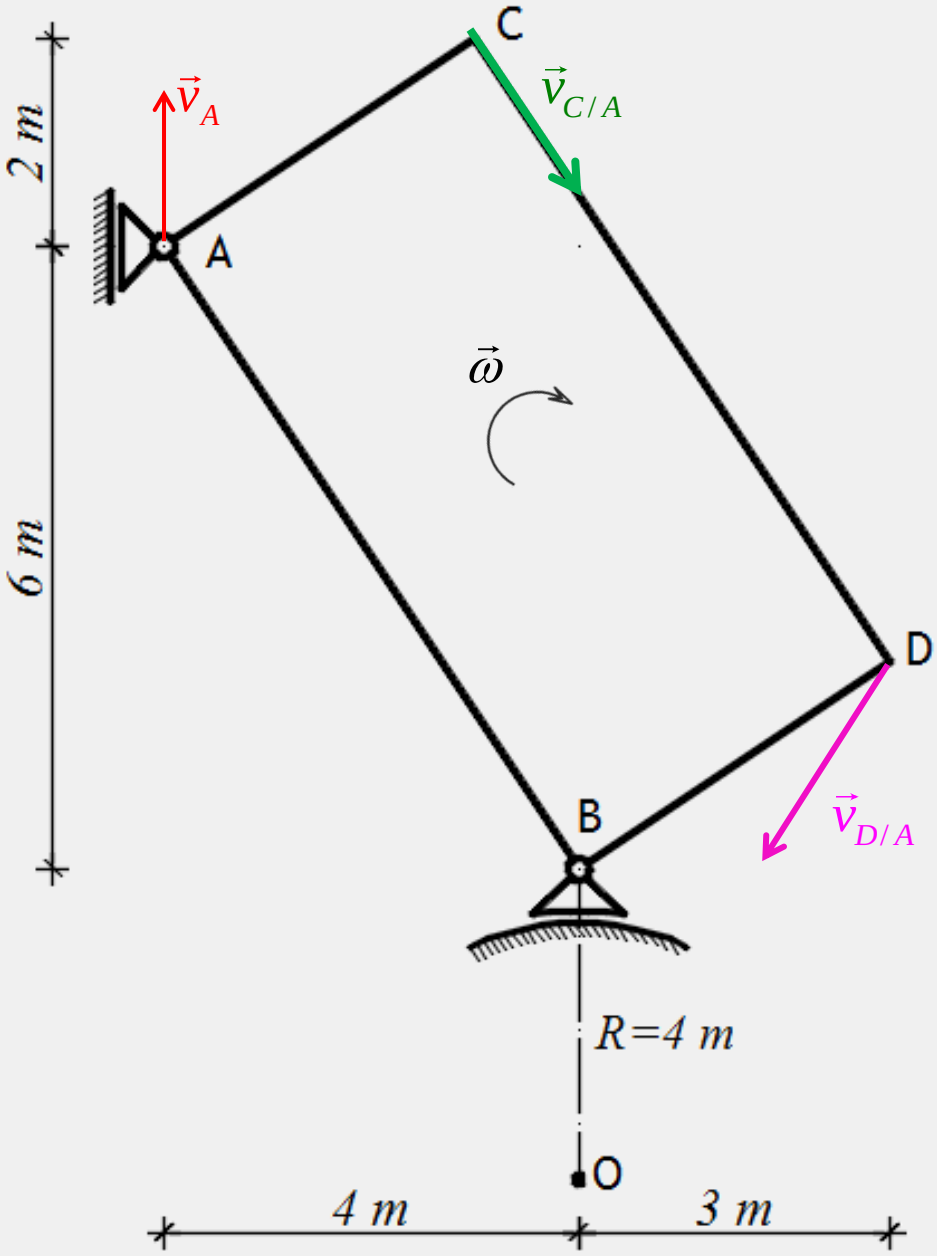
Brzina točke D

$$\vec{v}_D = \vec{v}_A + \vec{v}_{D/A}$$

$$\vec{v}_D = 4\vec{j} - 4\omega\vec{i} - 7\omega\vec{j}$$

$$\vec{v}_D = -4\vec{i} - 3\vec{j}$$

BRZINE



Brzina točke C

$$\vec{v}_C = \vec{v}_A + \vec{v}_{C/A}$$

$$\vec{v}_C = 4\vec{j} + 2\omega\vec{i} - 3\omega\vec{j}$$

$$\vec{v}_C = 2\vec{i} - \vec{j}$$

$$v_C = \sqrt{2^2 + 1^2} = 2,236\ m/s$$

Brzina točke D

$$\vec{v}_D = \vec{v}_A + \vec{v}_{D/A}$$

$$\vec{v}_D = 4\vec{j} - 4\omega\vec{i} - 7\omega\vec{j}$$

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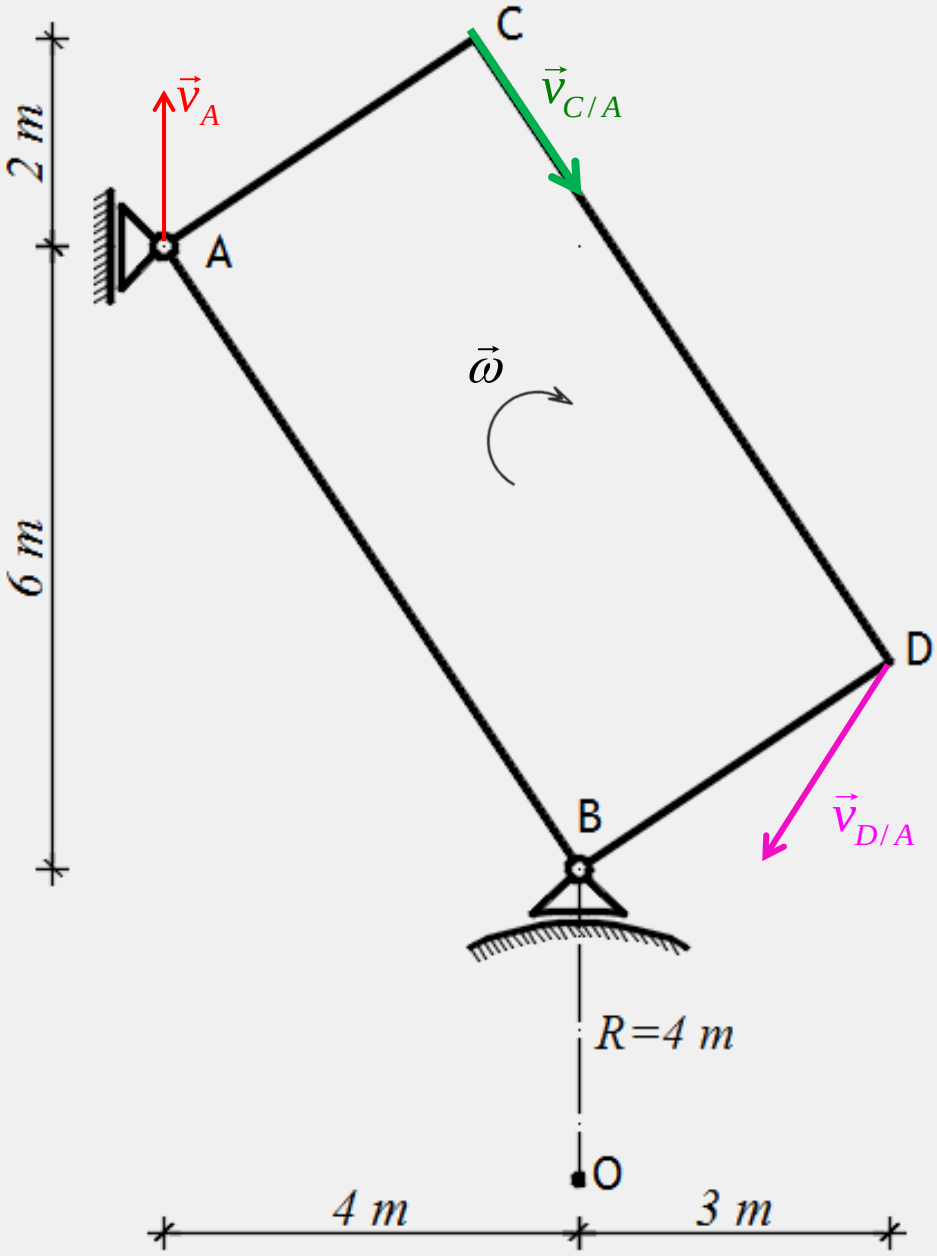
BRZINE



Brzina točke C

$$\vec{v}_C = \vec{v}_A + \vec{v}_{C/A}$$

$$\vec{v}_C = 4\vec{j} + 2\omega\vec{i} - 3\omega\vec{j}$$

$$\vec{v}_C = 2\vec{i} - \vec{j}$$

$$v_C = \sqrt{2^2 + 1^2} = 2,236\ m/s$$

Brzina točke D

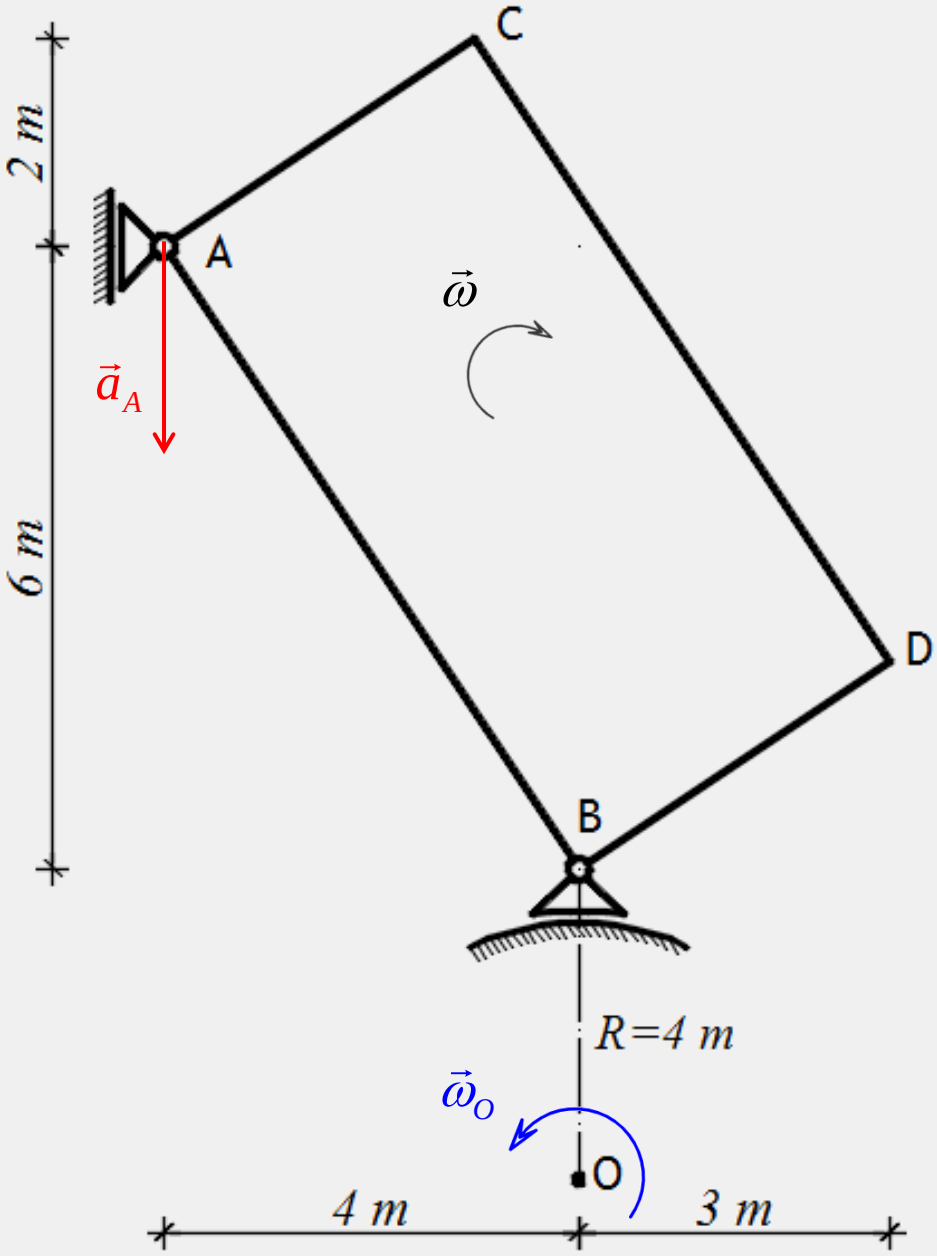
$$\vec{v}_D = \vec{v}_A + \vec{v}_{D/A}$$

$$\vec{v}_D = 4\vec{j} - 4\omega\vec{i} - 7\omega\vec{j}$$

$$\vec{v}_D = -4\vec{i} - 3\vec{j}$$

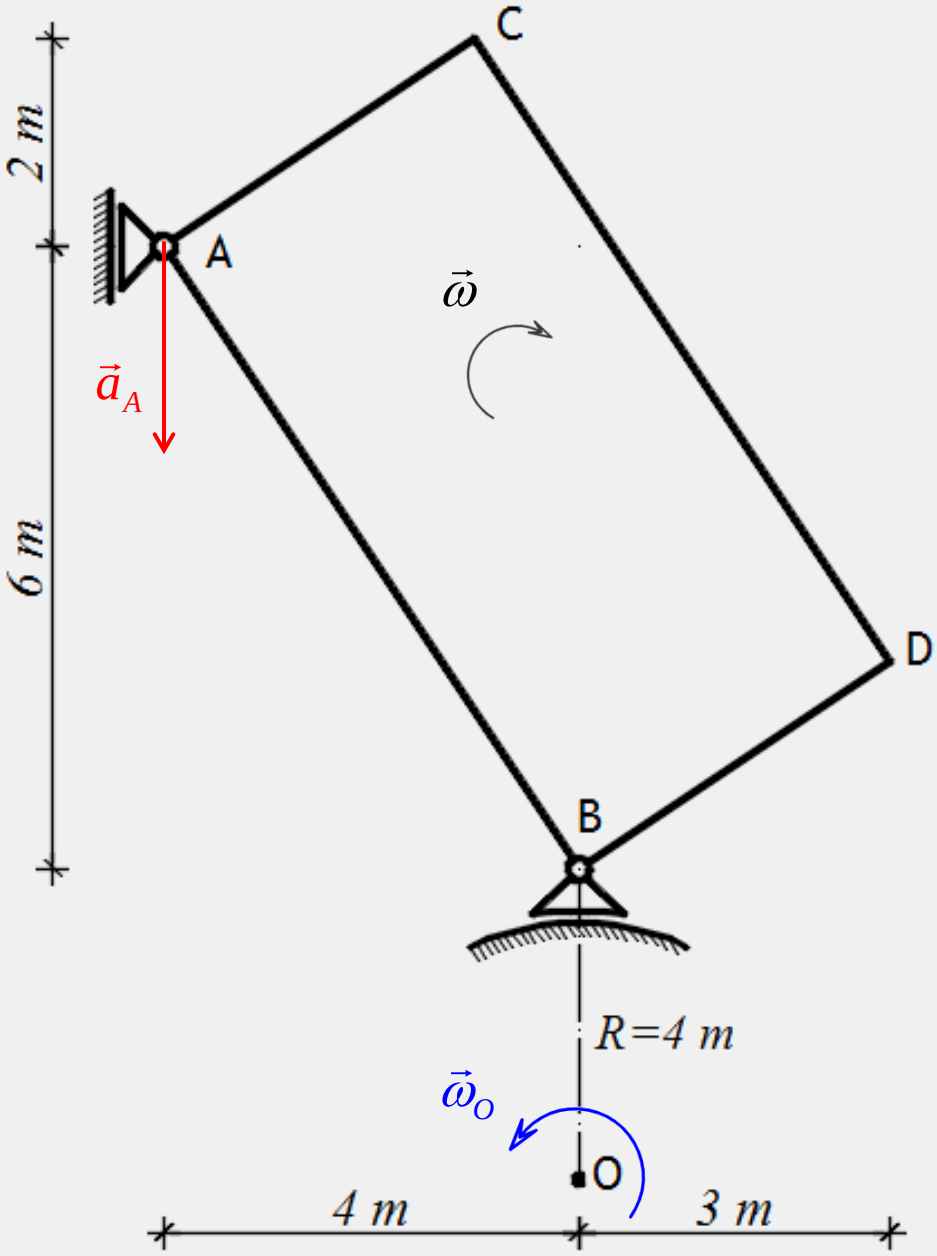
$$v_D = \sqrt{4^2 + 3^2} = 5\ m/s$$

UBRZANJA

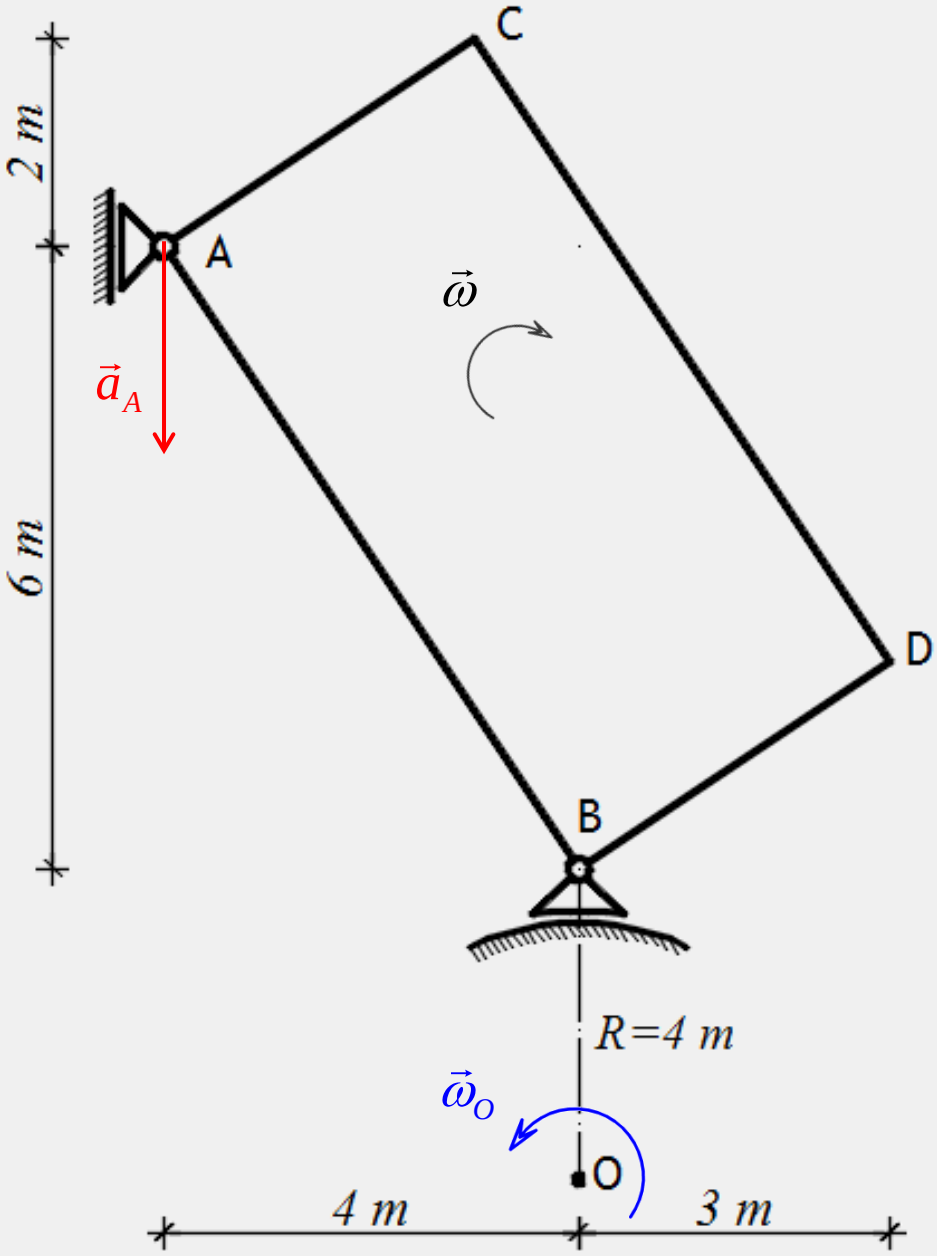


UBRZANJA

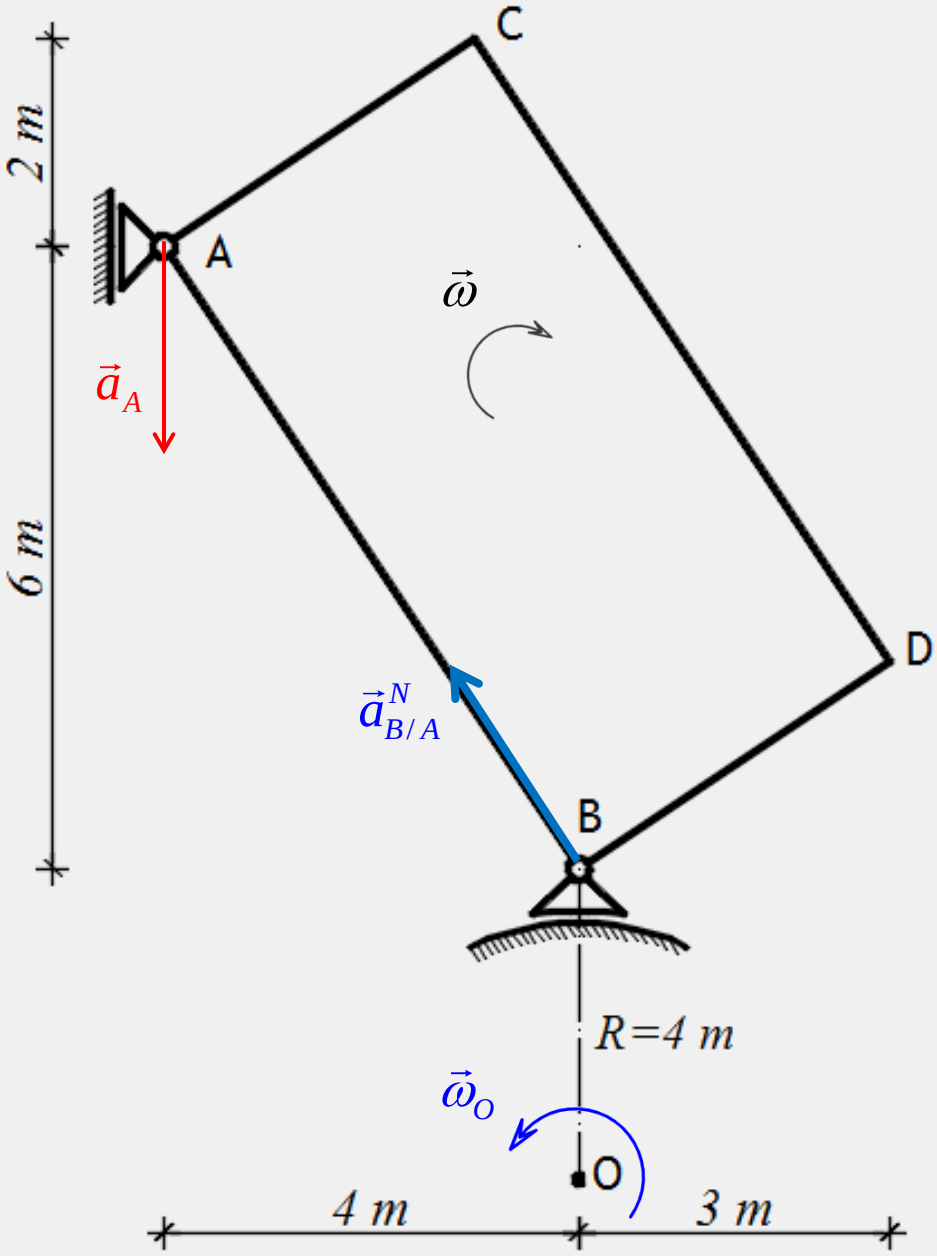
Ubrzanje točke B $\vec{a}_B = \vec{a}_A + \vec{a}^N_{B/A} + \vec{a}^T_{B/A}$



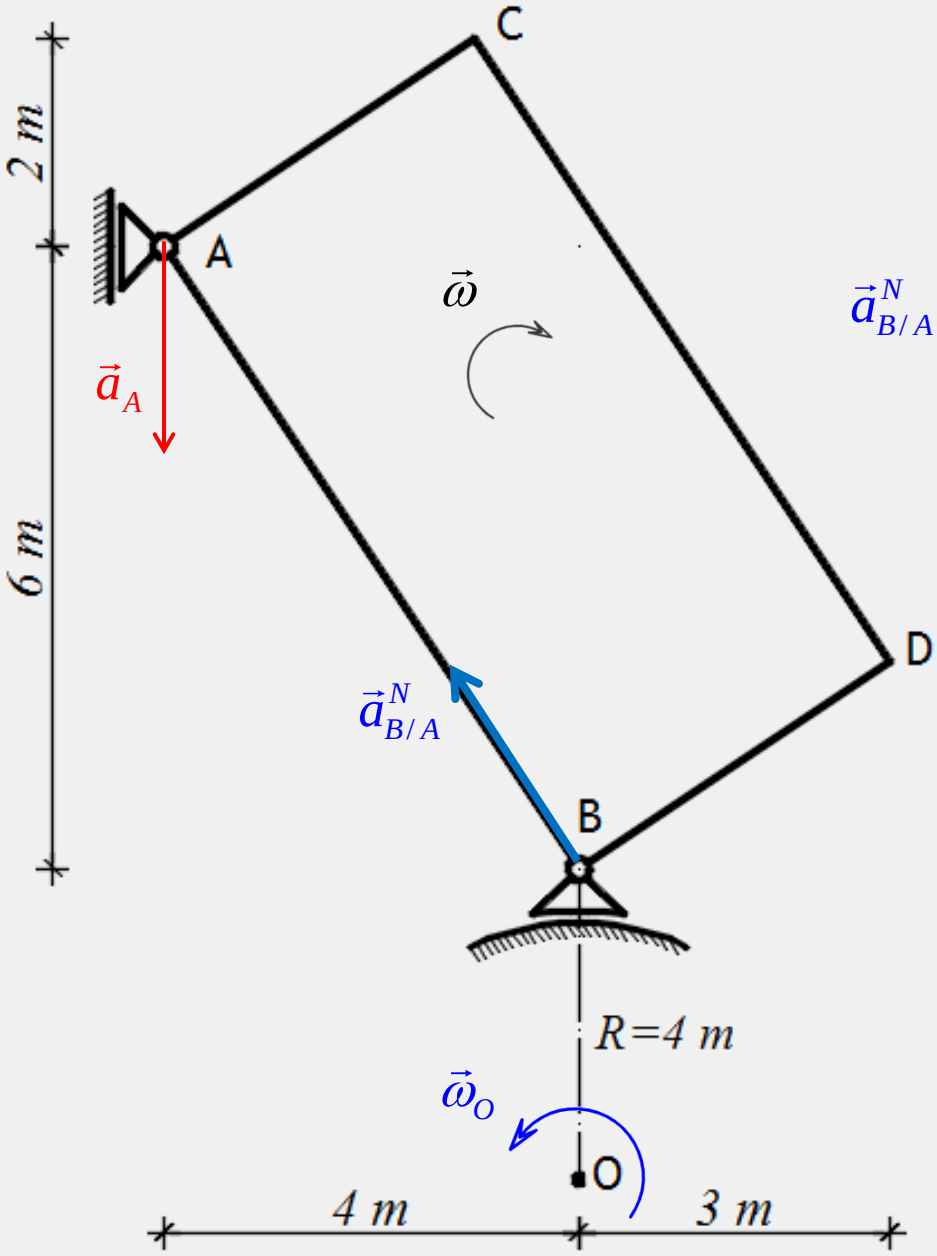
UBRZANJA **Ubrzanje točke B** $\vec{a}_B = \vec{a}_A + \vec{a}^N_{B/A} + \vec{a}^T_{B/A}$ $\vec{a}^N_{B/A} \parallel \overline{AB}$



UBRZANJA **Ubrzanje točke B** $\vec{a}_B = \vec{a}_A + \vec{a}^N_{B/A} + \vec{a}^T_{B/A}$ $\vec{a}^N_{B/A} \parallel \overline{AB}$



UBRZANJA **Ubrzanje točke B** $\vec{a}_B = \vec{a}_A + \vec{a}^N_{B/A} + \vec{a}^T_{B/A}$ $\vec{a}^N_{B/A} \parallel \overline{AB}$



$$\vec{a}^N_{B/A} = -4\omega^2\vec{i} + 6\omega^2\vec{j} = -4\vec{i} + 6\vec{j}$$

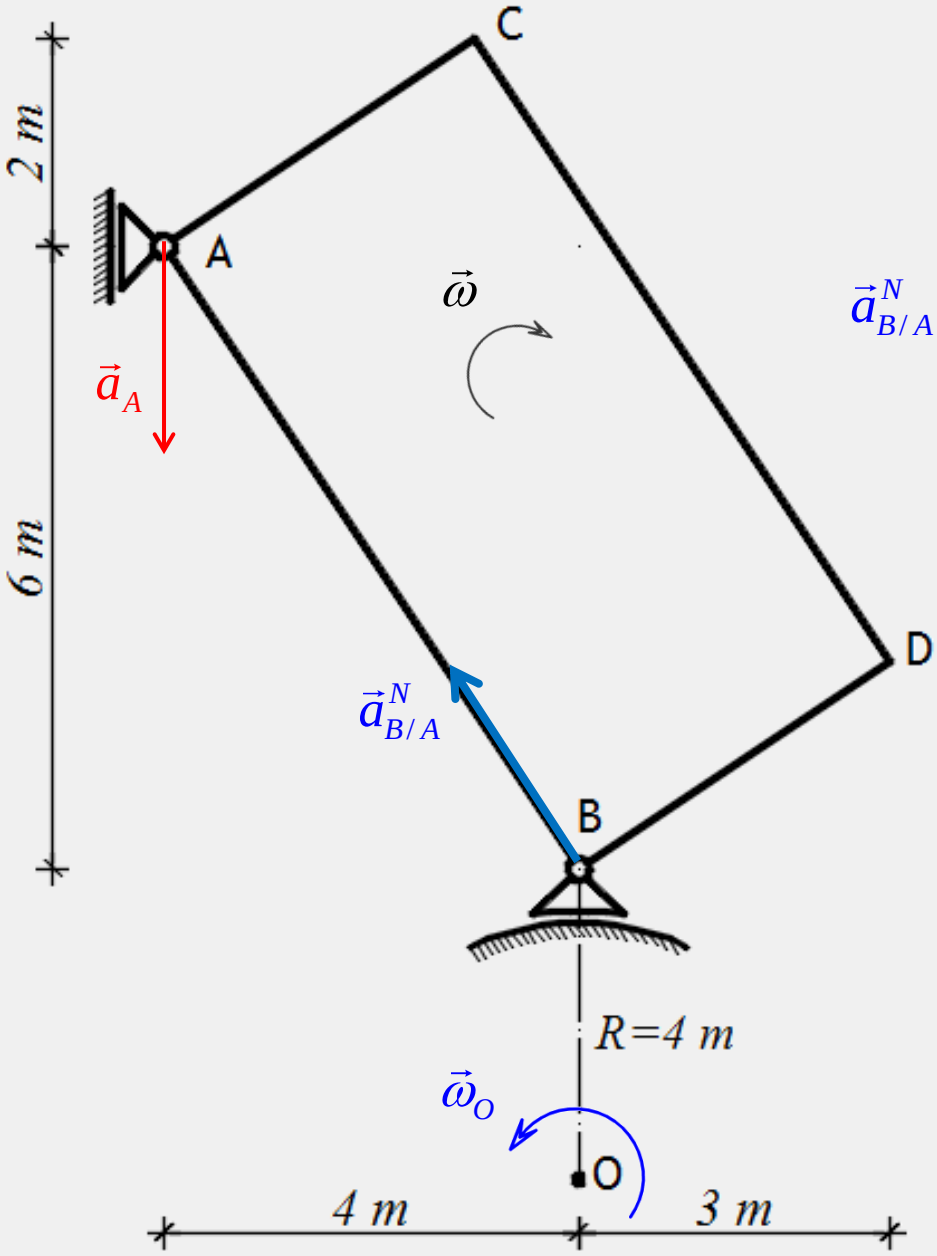
UBRZANJA

Ubrzanje točke B

$\vec{a}_B = \vec{a}_A + \vec{a}^N_{B/A} + \vec{a}^T_{B/A}$

$\vec{a}^N_{B/A} \parallel \overline{AB}$

$\vec{a}^T_{B/A} \perp \overline{AB}$



$\vec{a}^N_{B/A} = -4\omega^2\vec{i} + 6\omega^2\vec{j} = -4\vec{i} + 6\vec{j}$

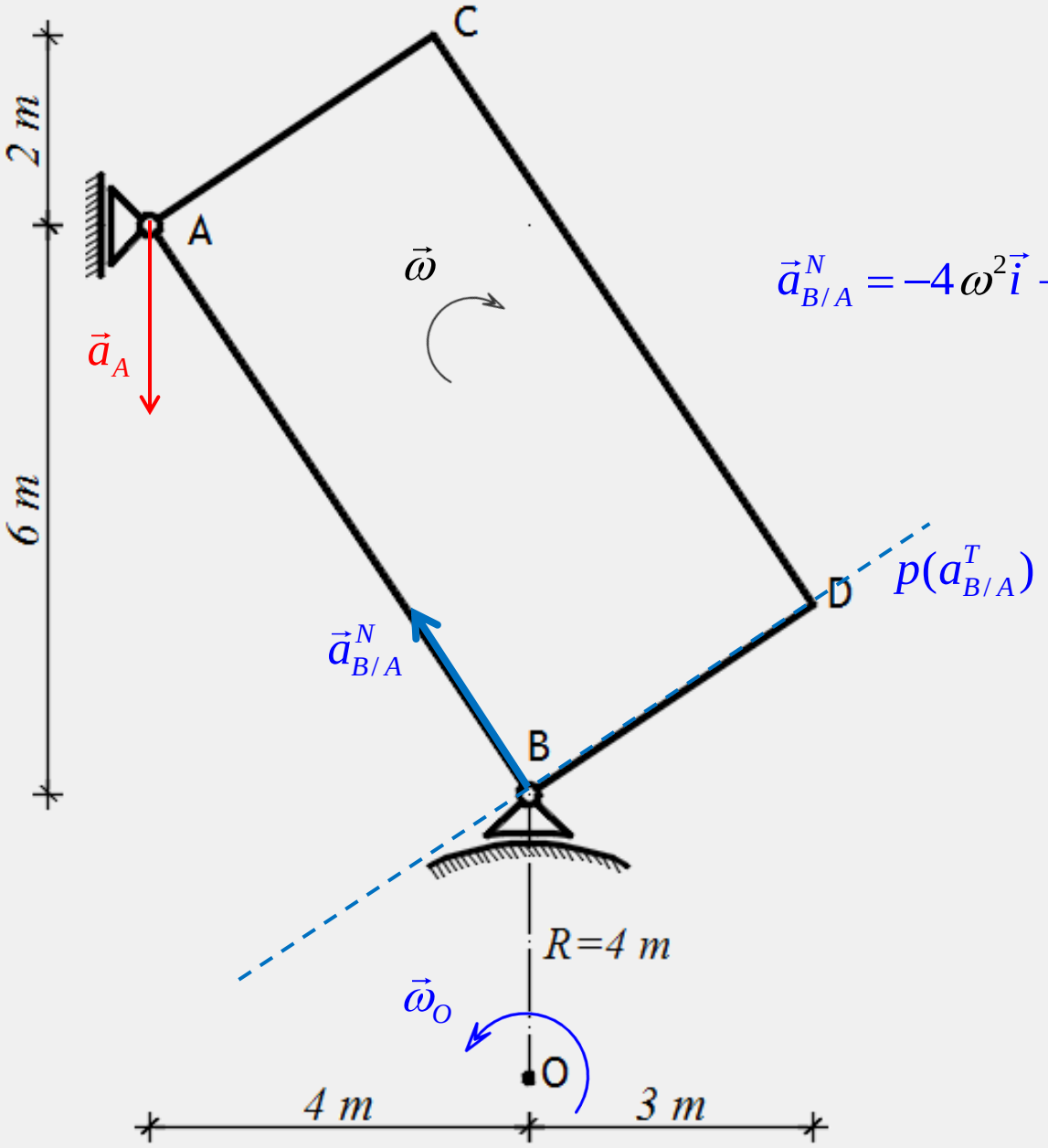
UBRZANJA

Ubrzanje točke B

$\vec{a}_B = \vec{a}_A + \vec{a}^N_{B/A} + \vec{a}^T_{B/A}$

$\vec{a}^N_{B/A} \parallel \overline{AB}$

$\vec{a}^T_{B/A} \perp \overline{AB}$



$\vec{a}^N_{B/A} = -4\omega^2\vec{i} + 6\omega^2\vec{j} = -4\vec{i} + 6\vec{j}$

UBRZANJA

Ubrzanje točke B

$$\vec{a}_B = \vec{a}_A + \vec{a}^N_{B/A} + \vec{a}^T_{B/A}$$

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$$\vec{a}_B = \vec{a}^N_{B/O} + \vec{a}^T_{B/O}$$

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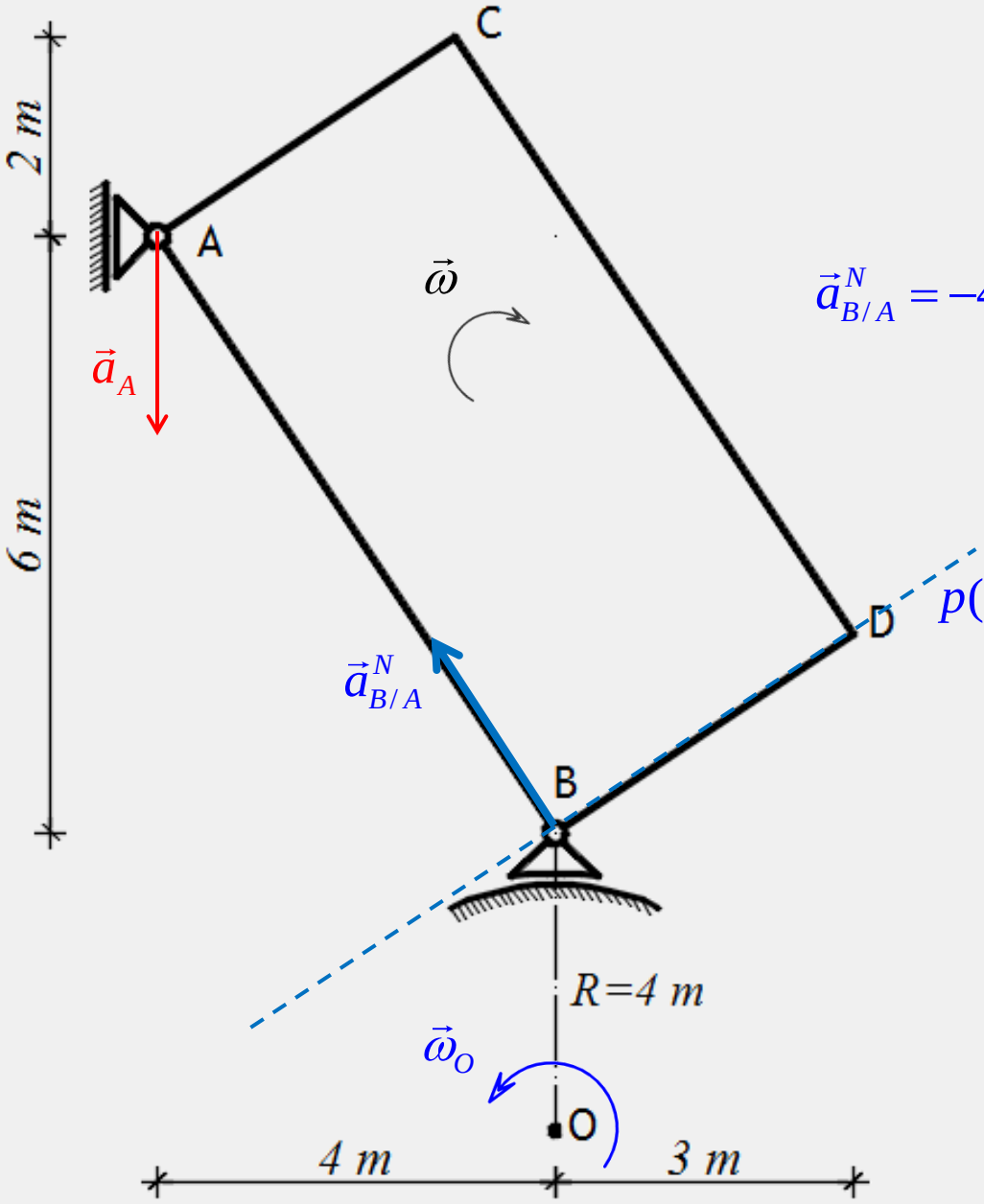

UBRZANJA

Ubrzanje točke B

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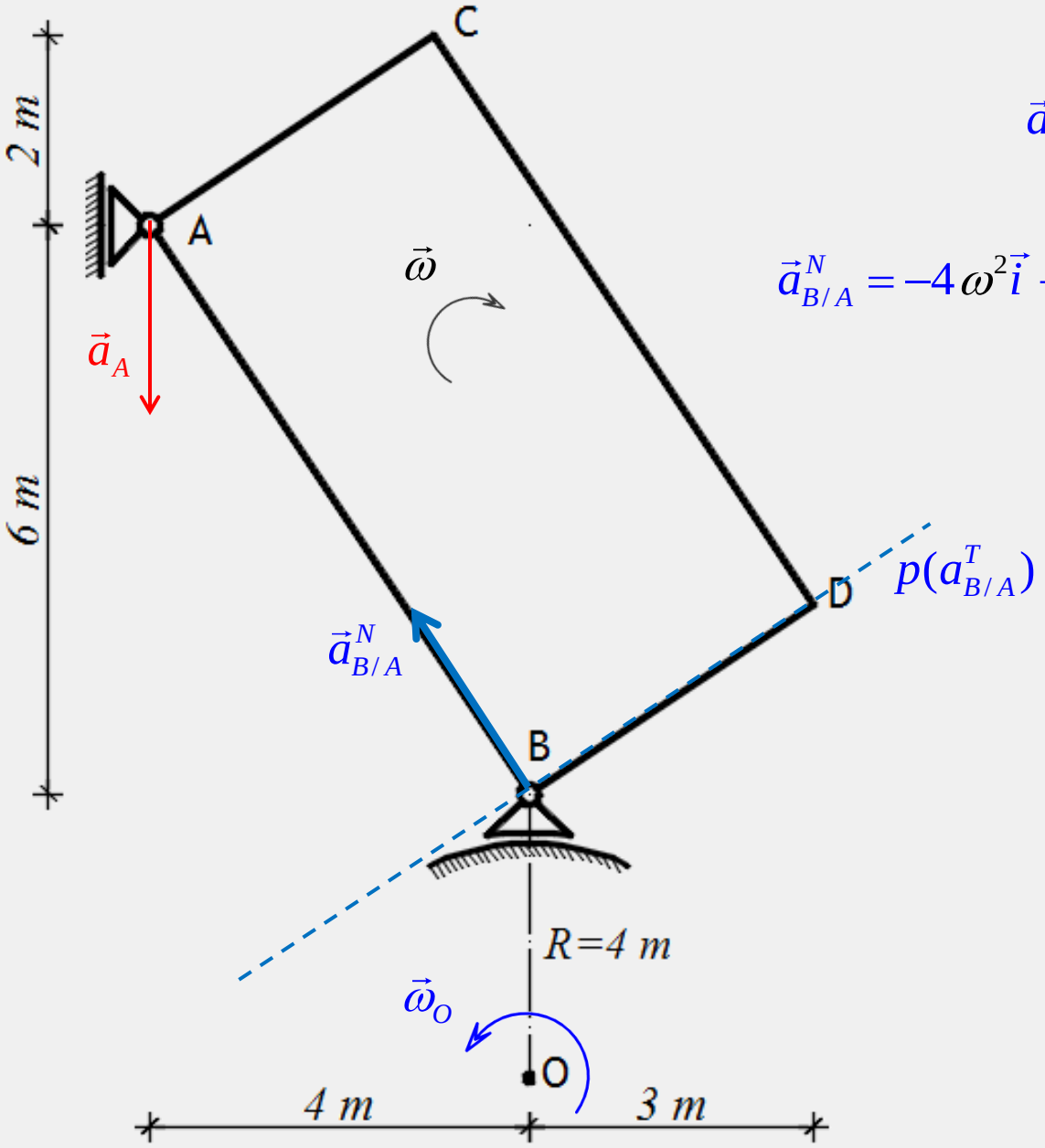
$$\vec{a}_B = \vec{a}^N_{B/O} + \vec{a}^T_{B/O}$$

$$\vec{a}^N_{B/O} \parallel R$$



$$\vec{a}^N_{B/A} = -4\omega^2\vec{i} + 6\omega^2\vec{j} = -4\vec{i} + 6\vec{j}$$

UBRZANJA

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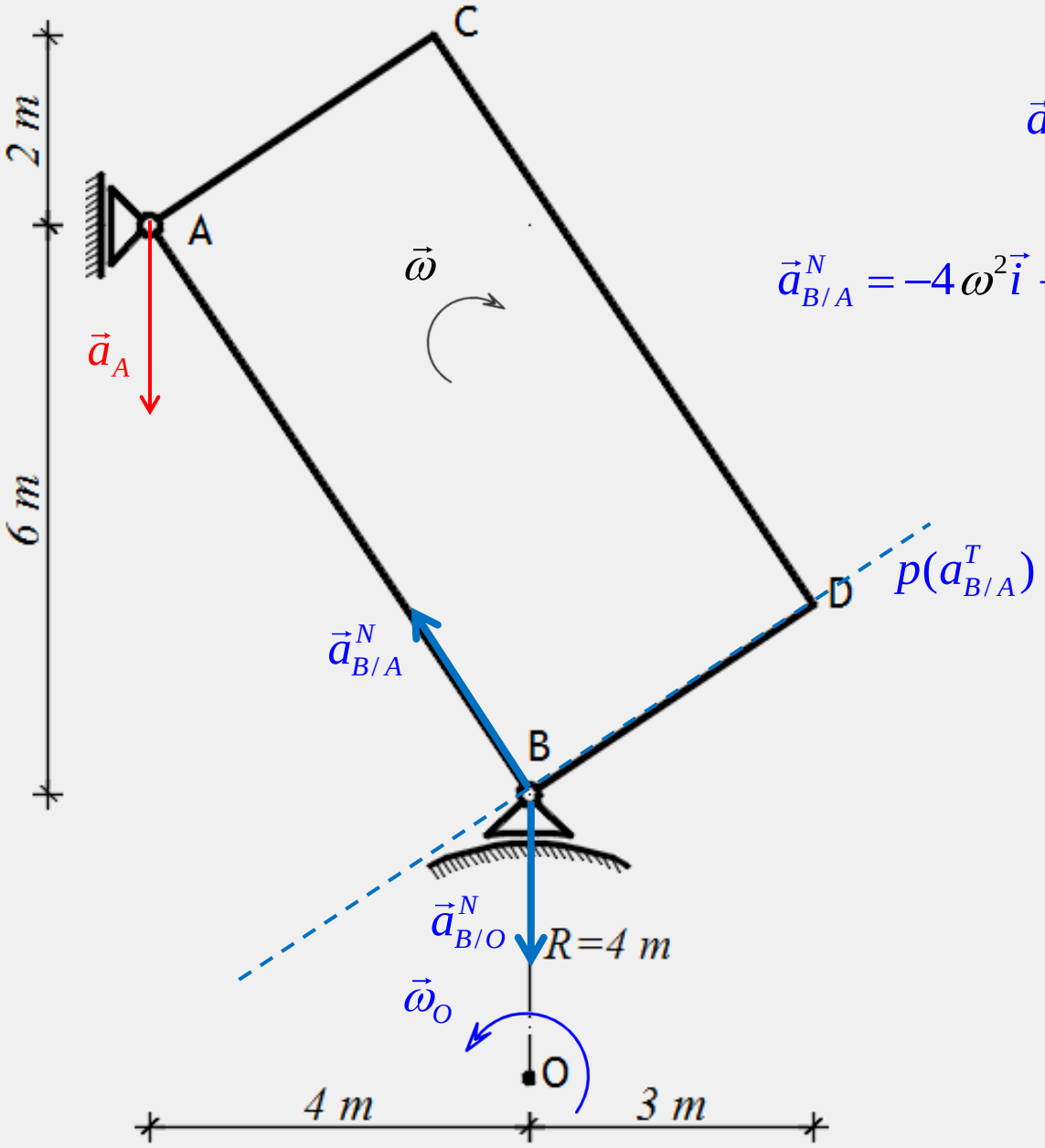

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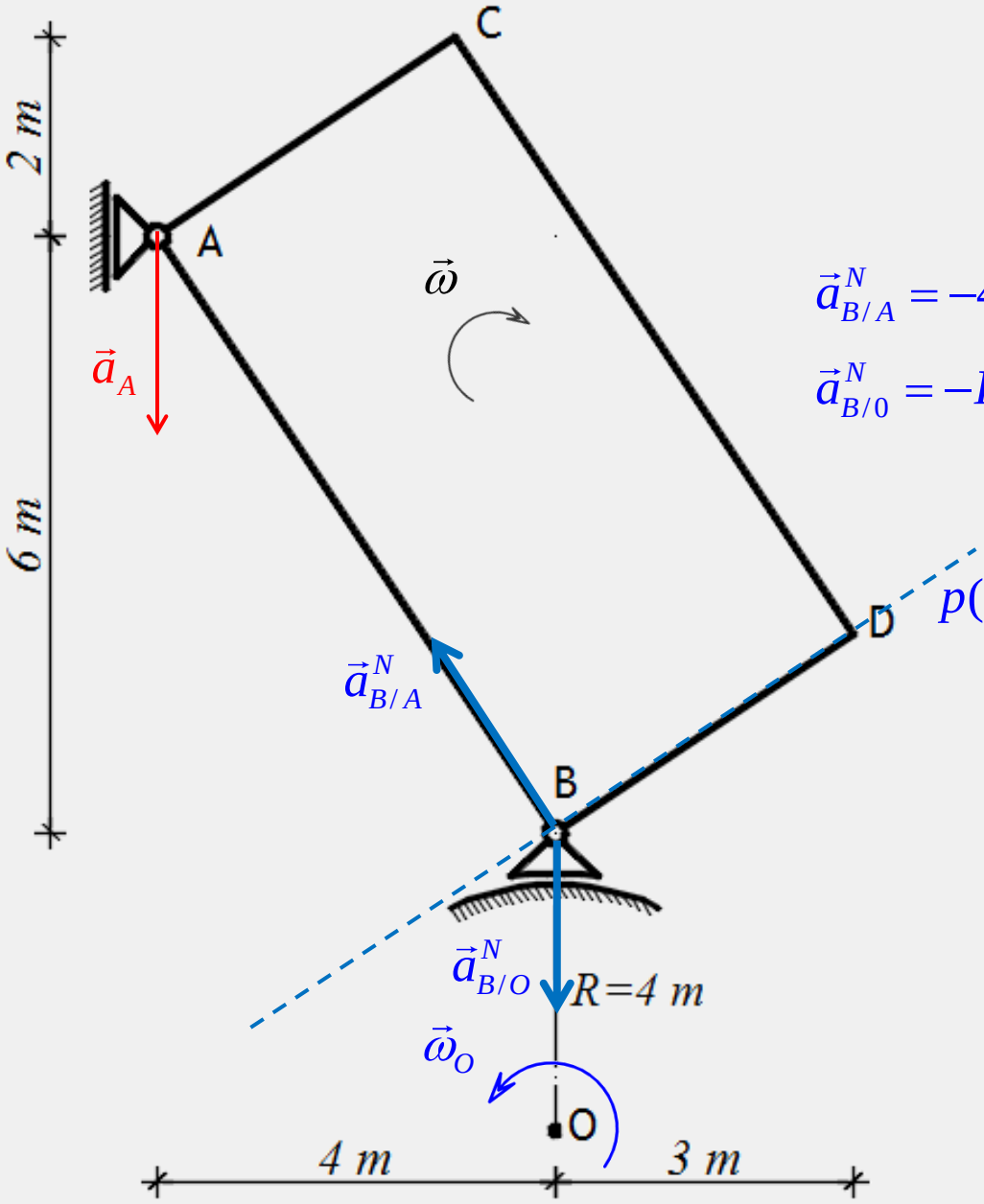

$$\vec{a}^N_{B/A} = -4\,\omega^2\vec{i} + 6\,\omega^2\vec{j} = -4\vec{i} + 6\vec{j}$$

$$\vec{a}^N_{B/0} = -R\,\omega_O{}^2\vec{j} = -9\vec{j}$$

UBRZANJA

Ubrzanje točke B

$$\vec{a}_B = \vec{a}_A + \vec{a}^N_{B/A} + \vec{a}^T_{B/A}$$

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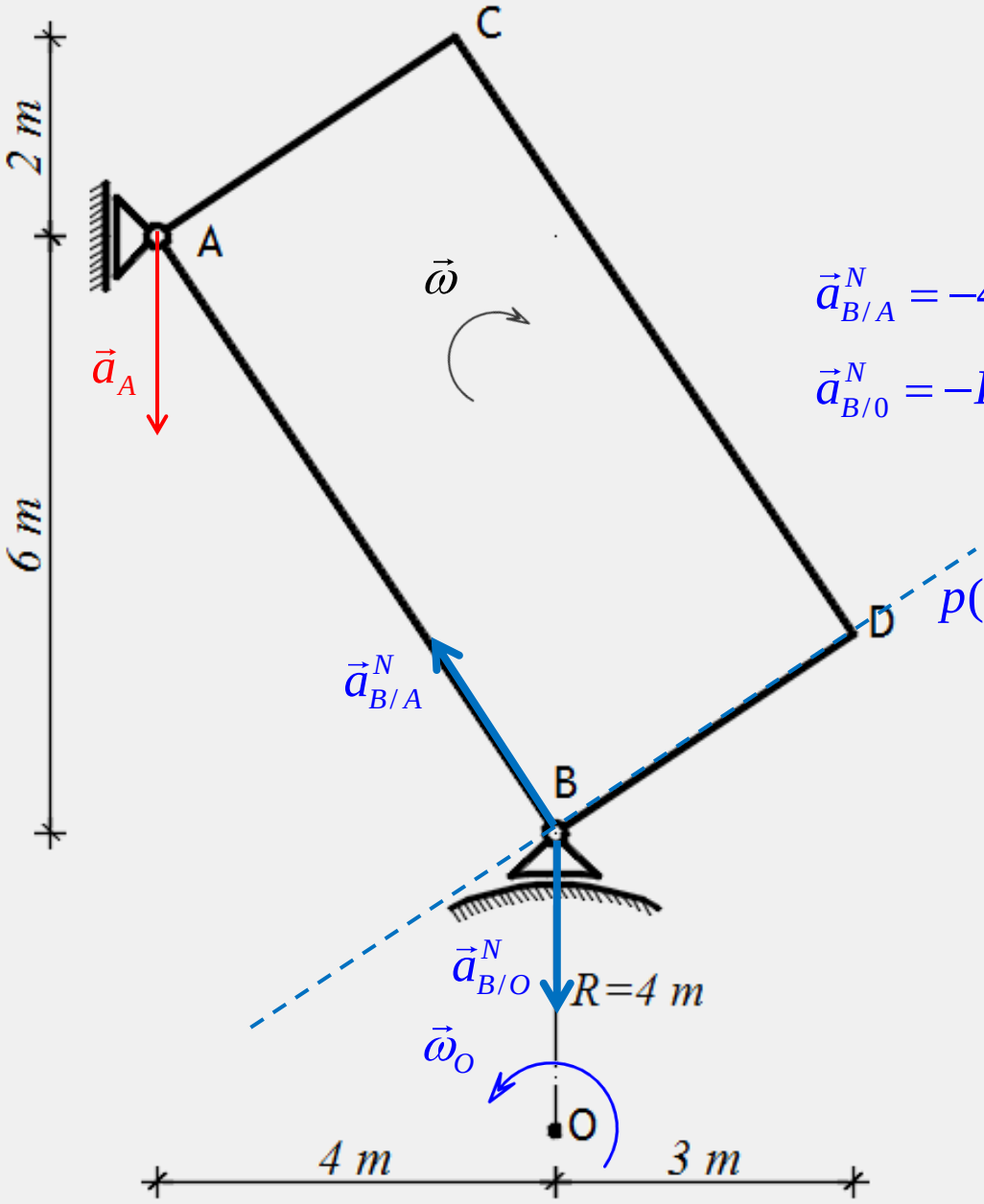

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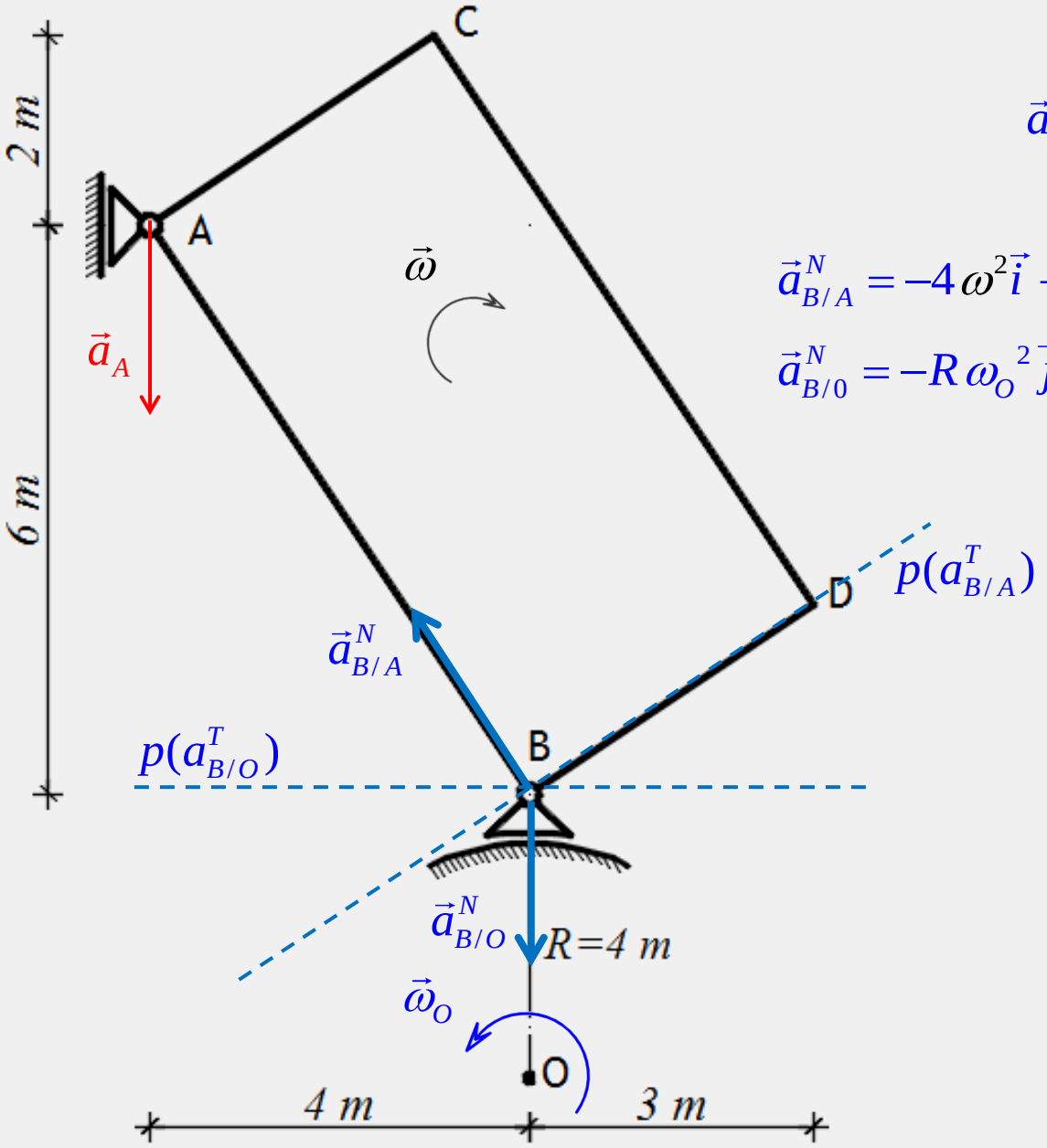

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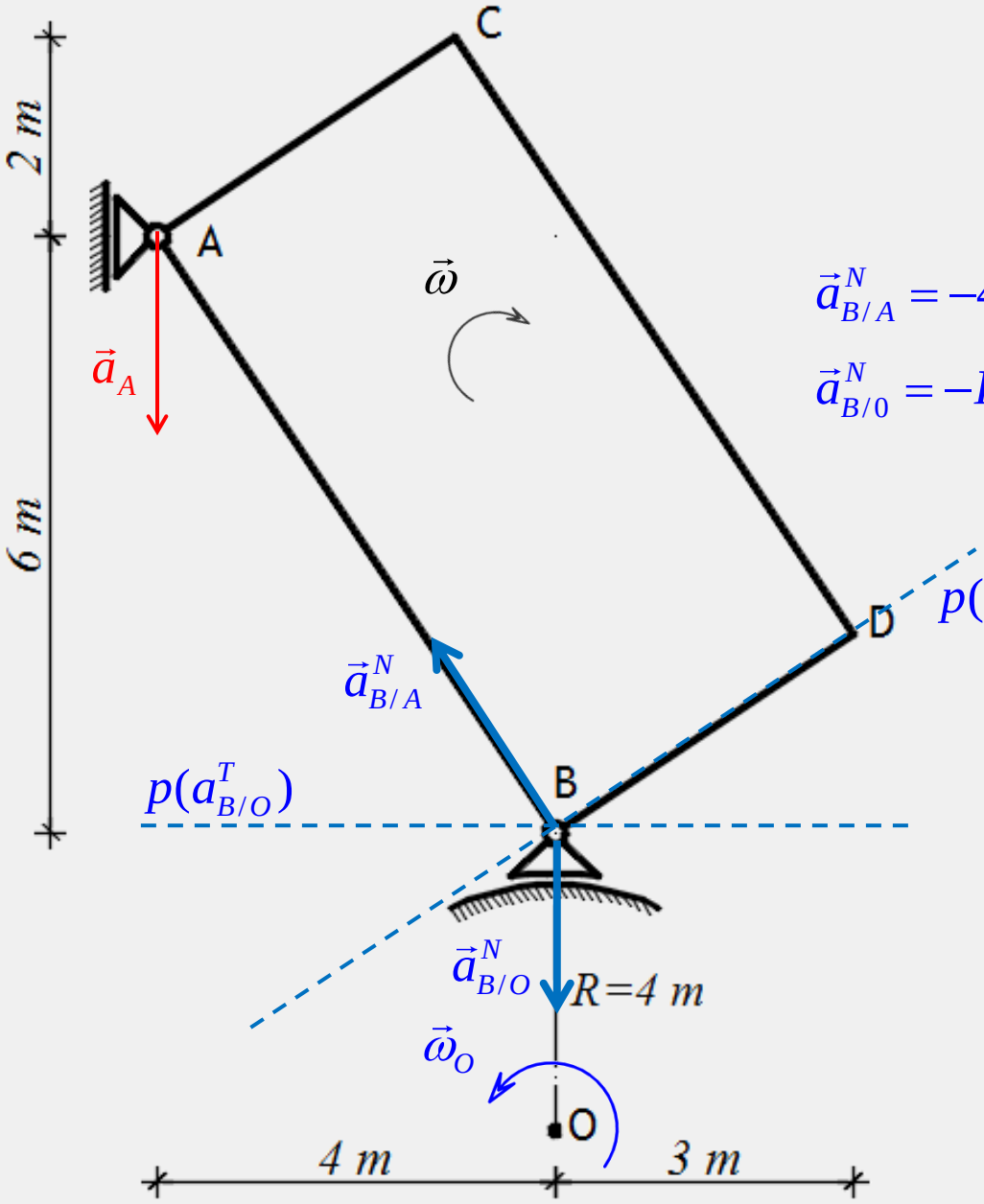

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$$\vec{a}_A + \vec{a}^N_{B/A} + \vec{a}^T_{B/A} = \vec{a}^N_{B/O} + \vec{a}^T_{B/O}$$

UBRZANJA

Ubrzanje točke B

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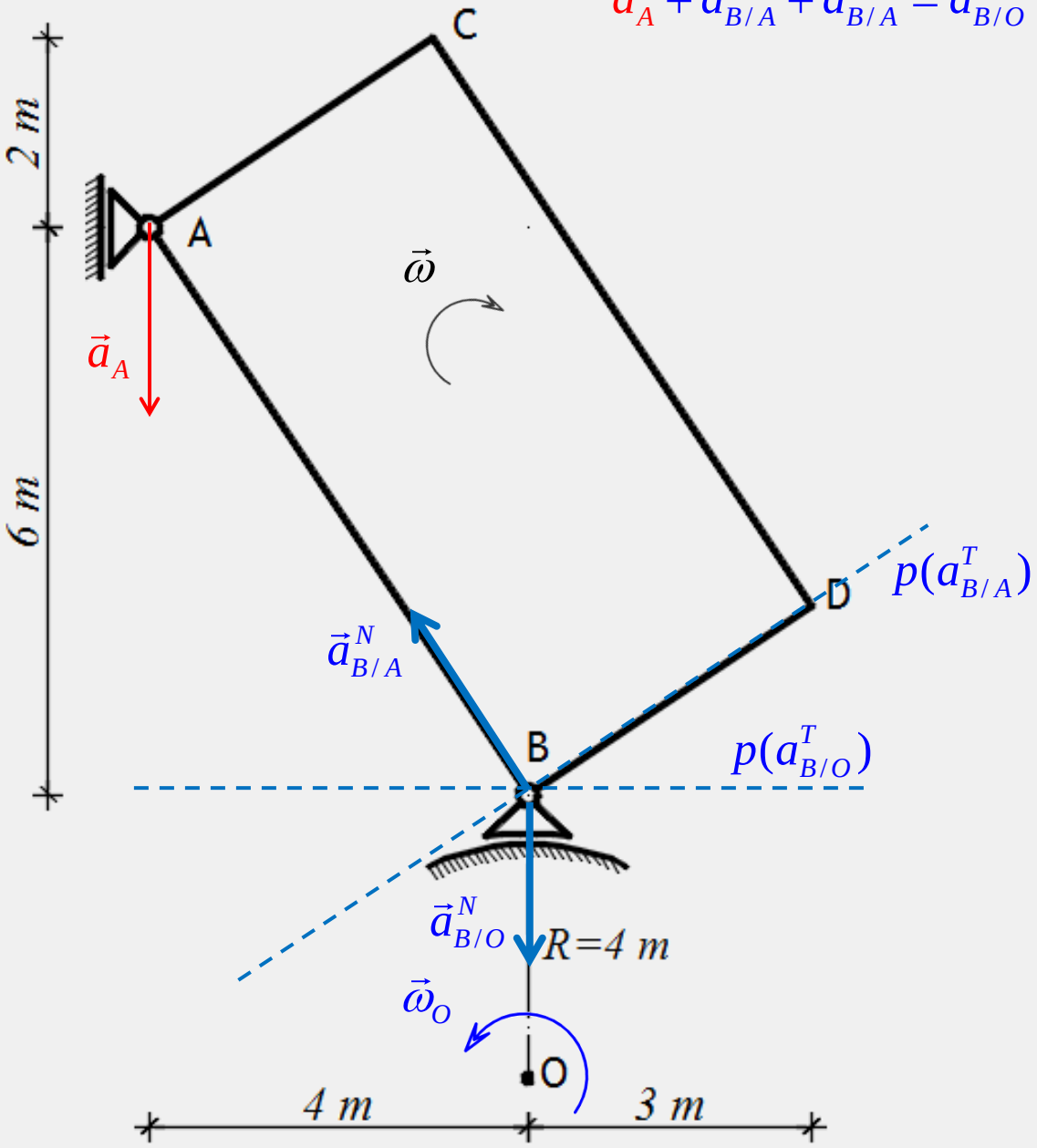
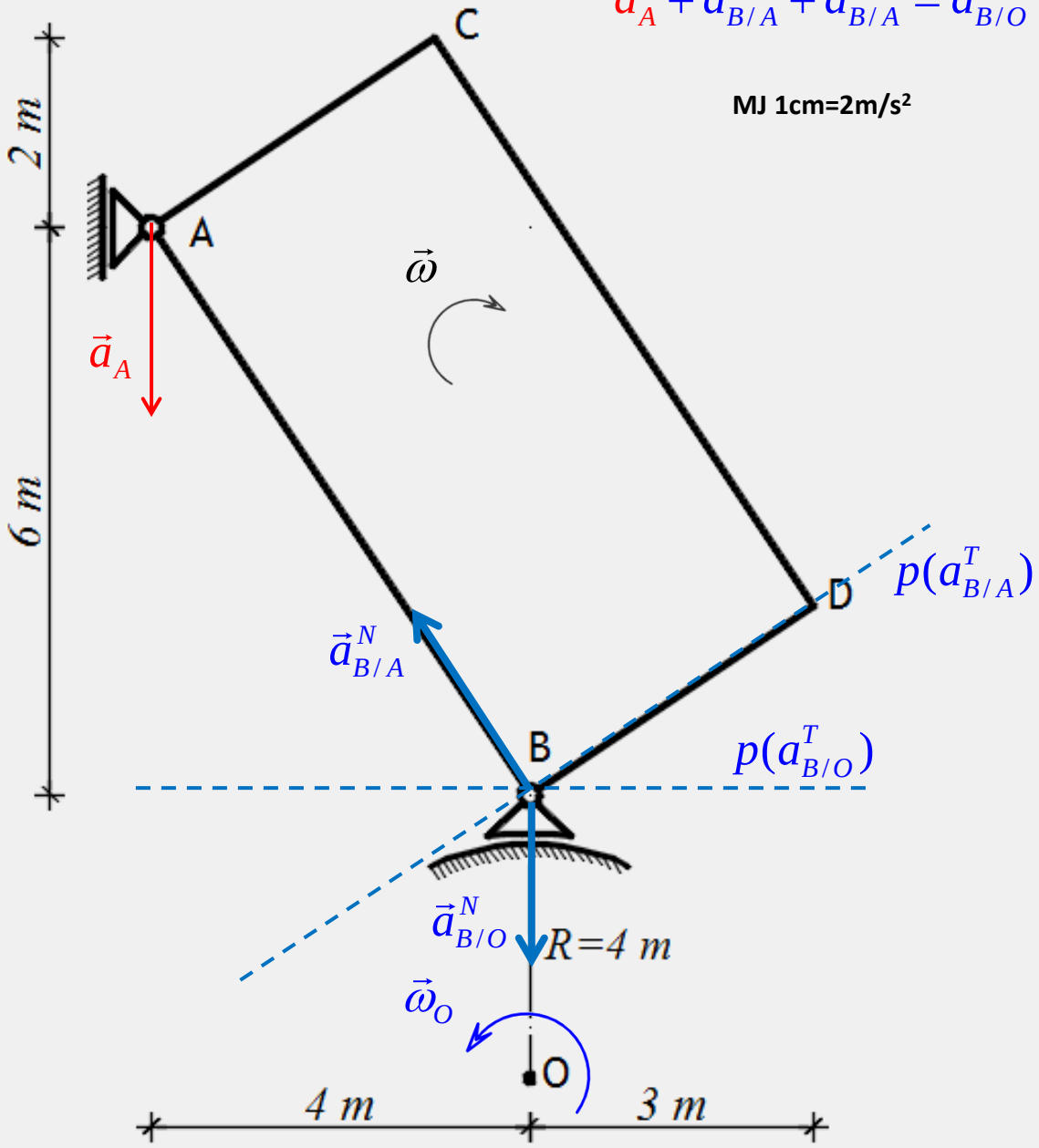


UBRZANJA

Ubrzanje točke B

$$\vec{a}_A + \vec{a}^N_{B/A} + \vec{a}^T_{B/A} = \vec{a}^N_{B/O} + \vec{a}^T_{B/O}$$

MJ 1cm=2m/s²



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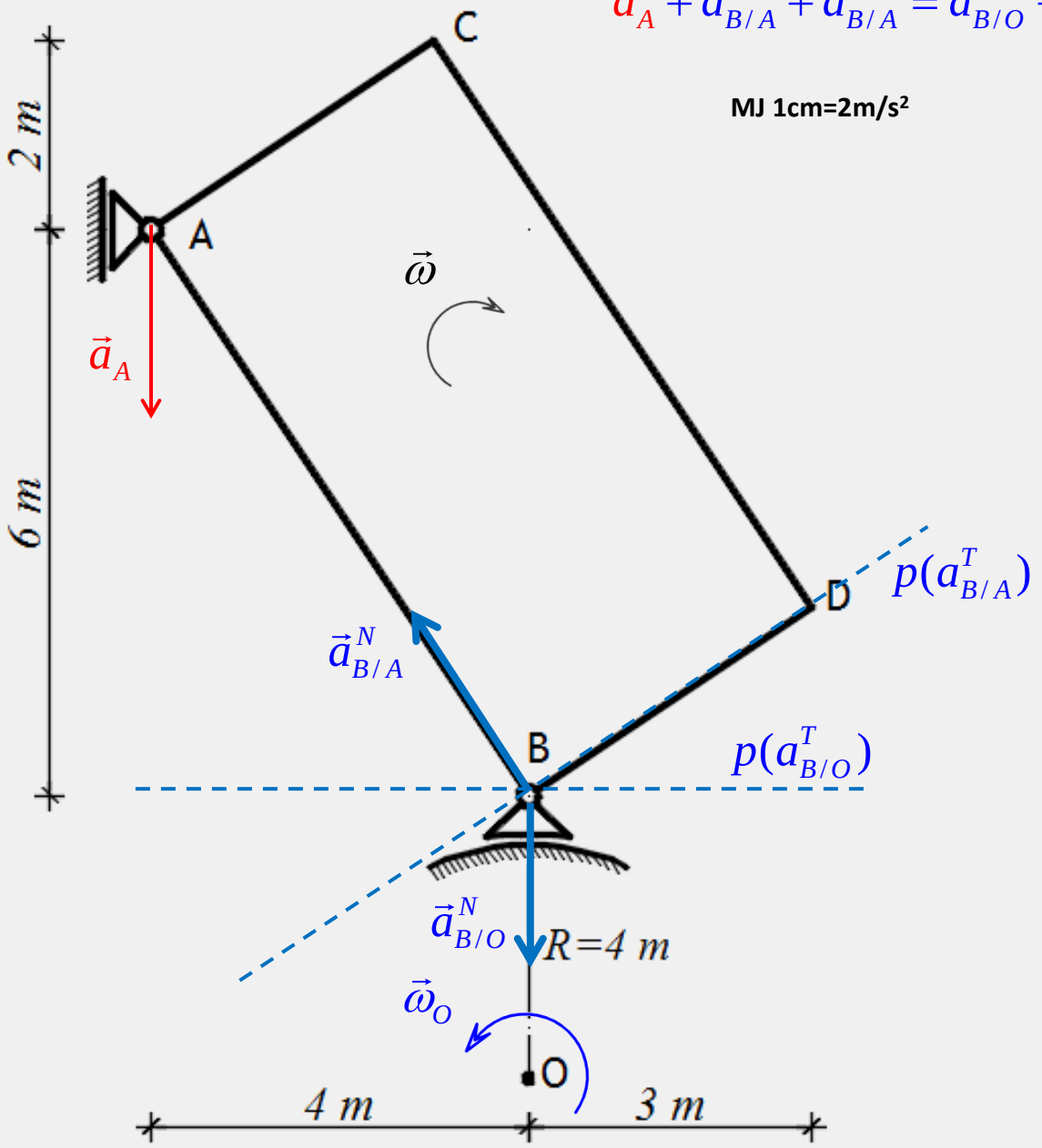

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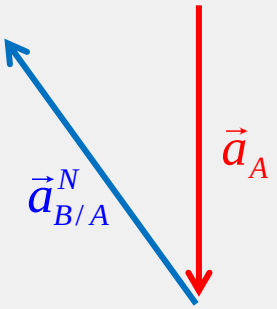

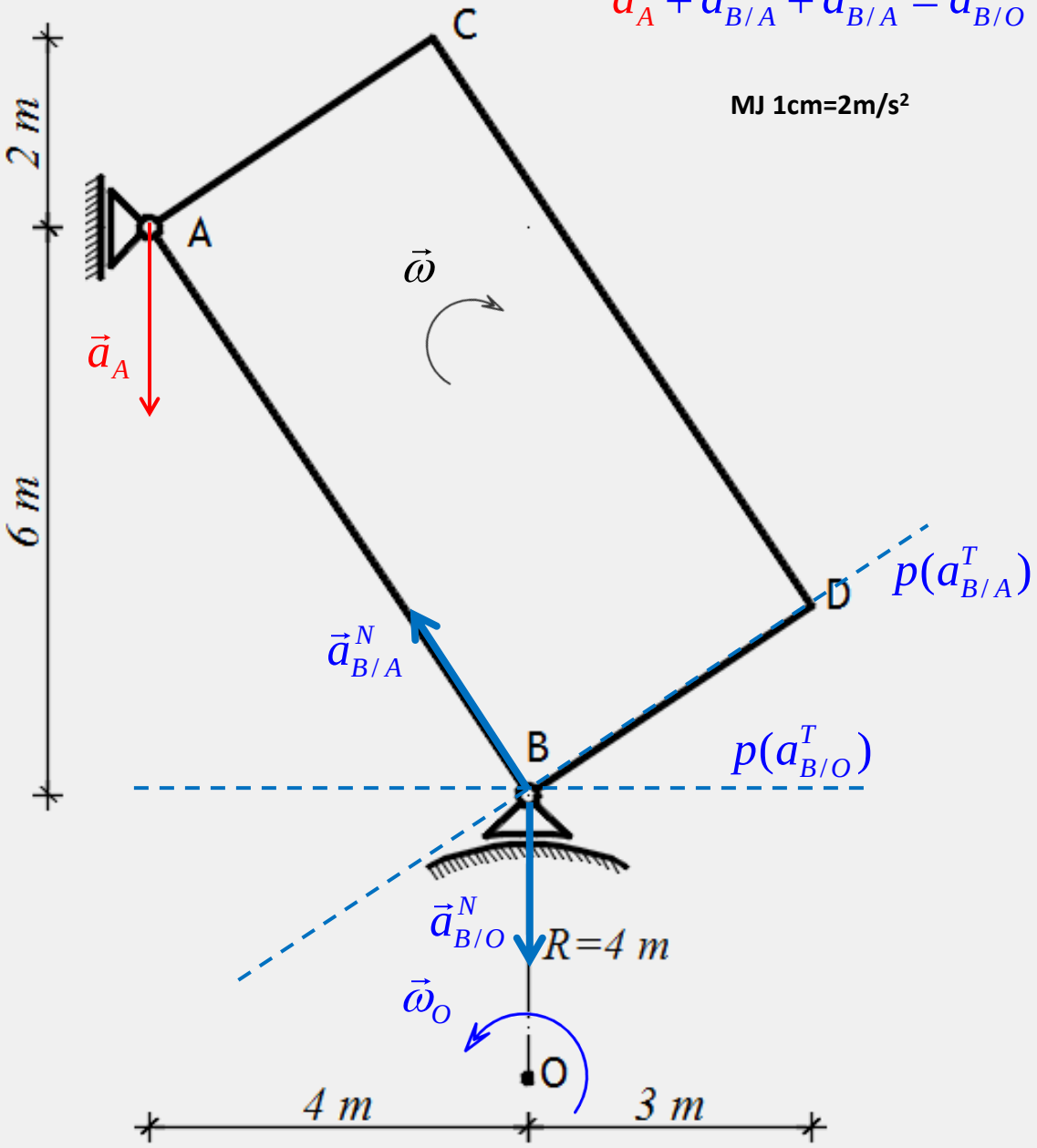

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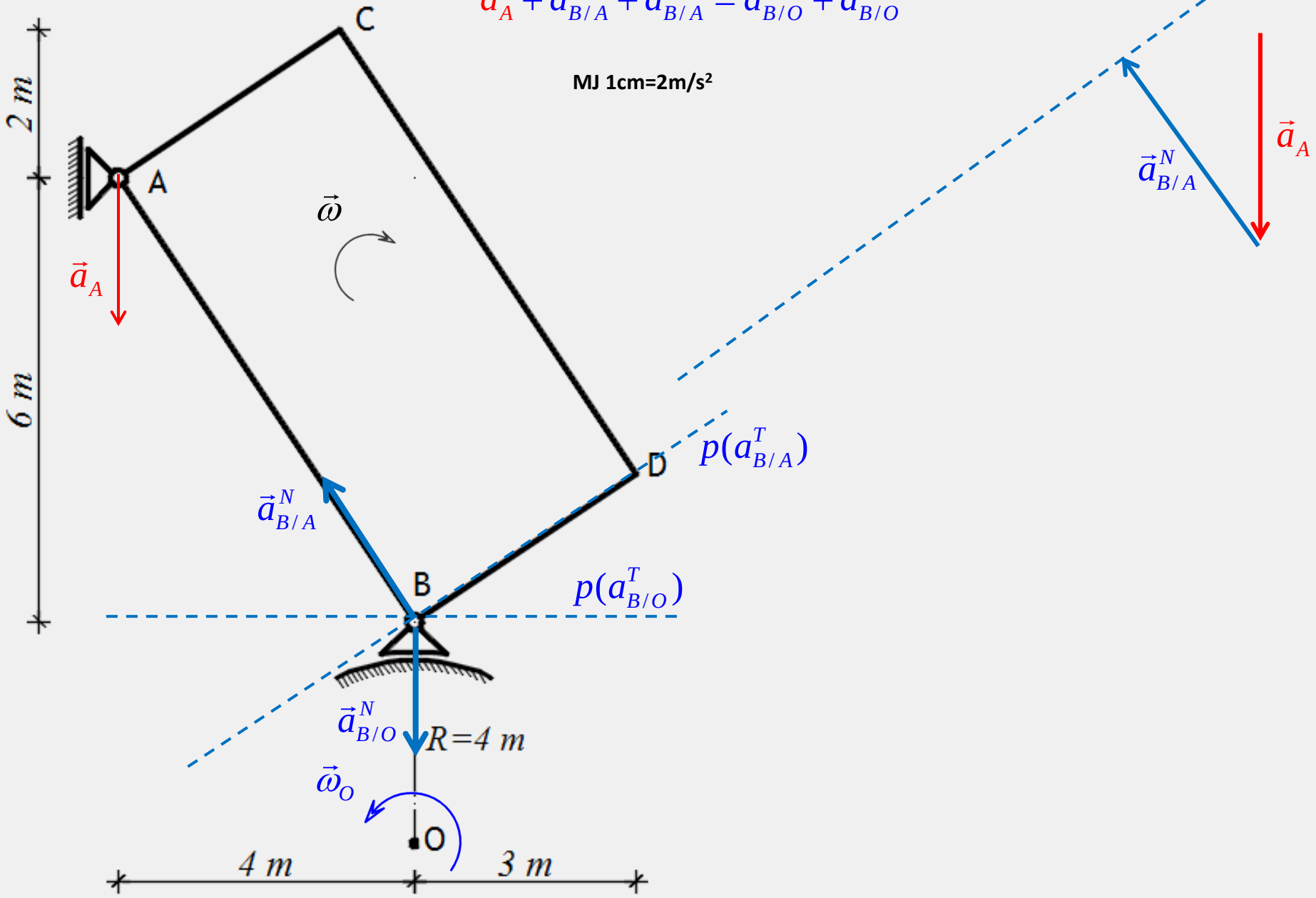

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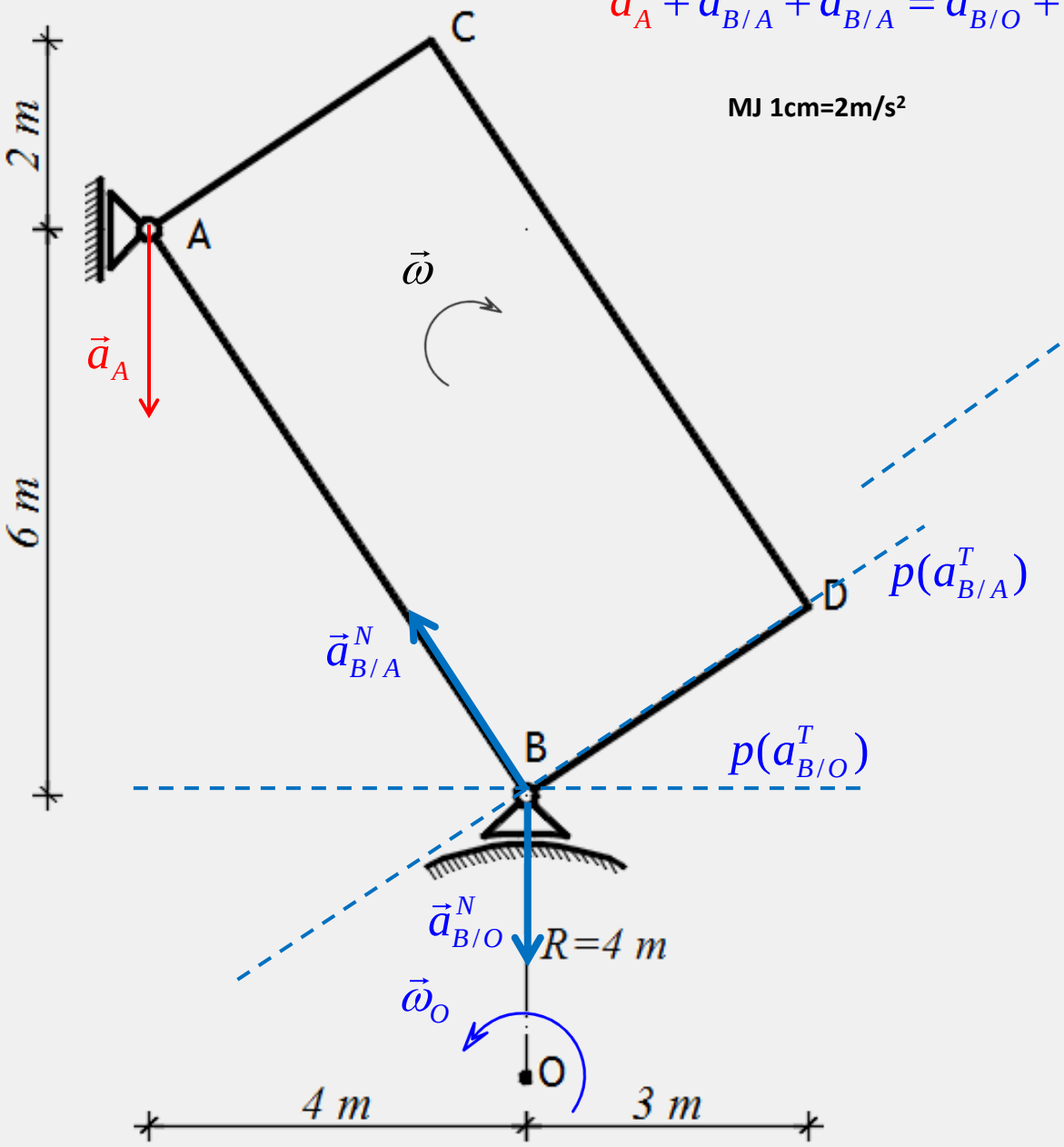

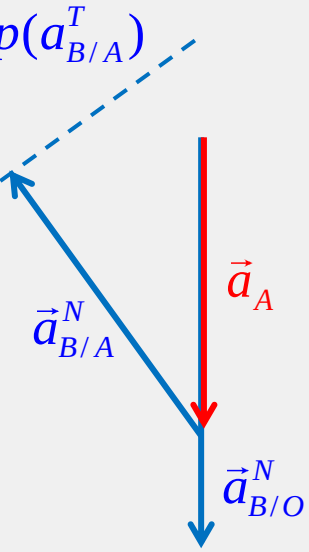

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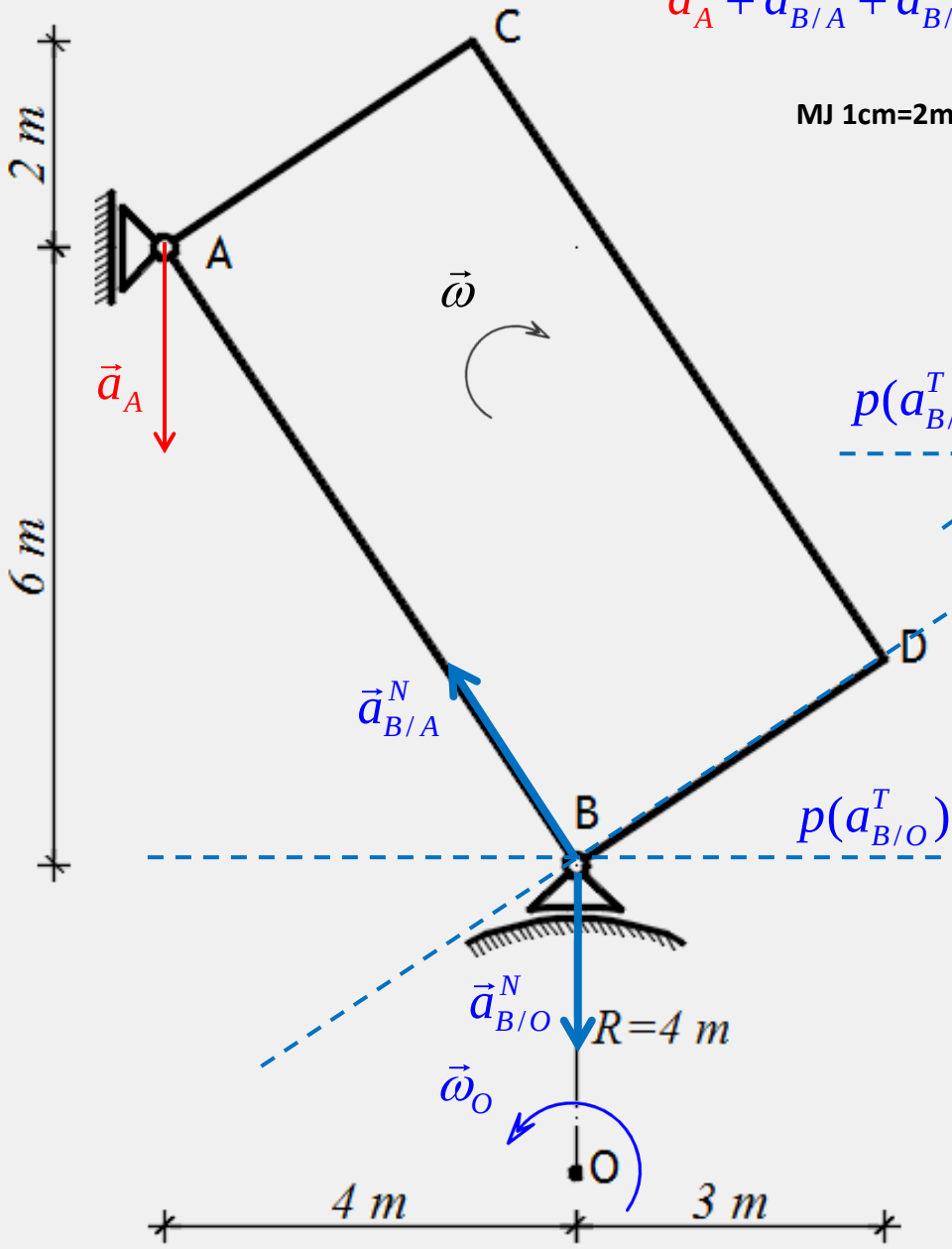

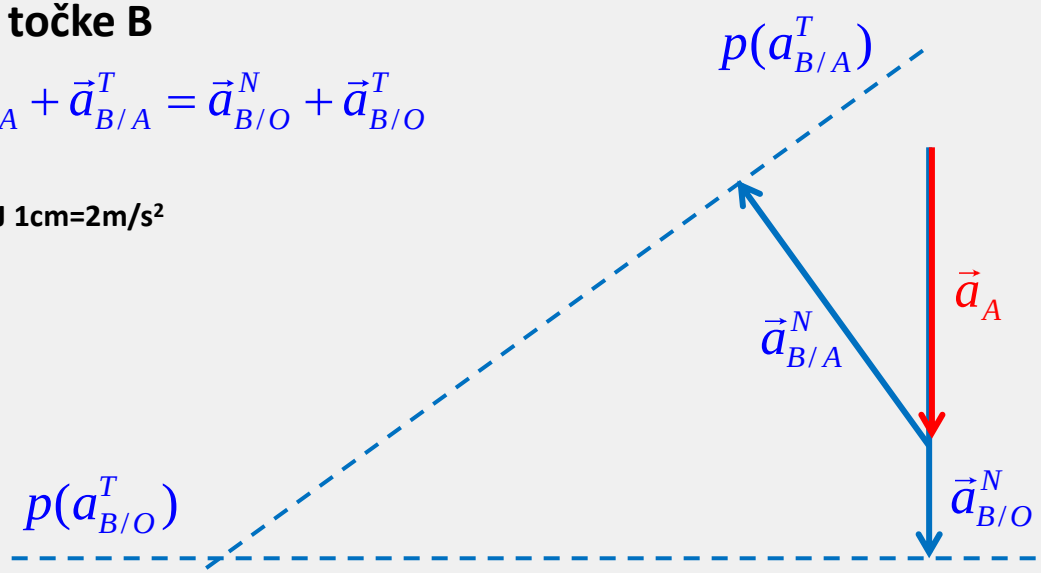

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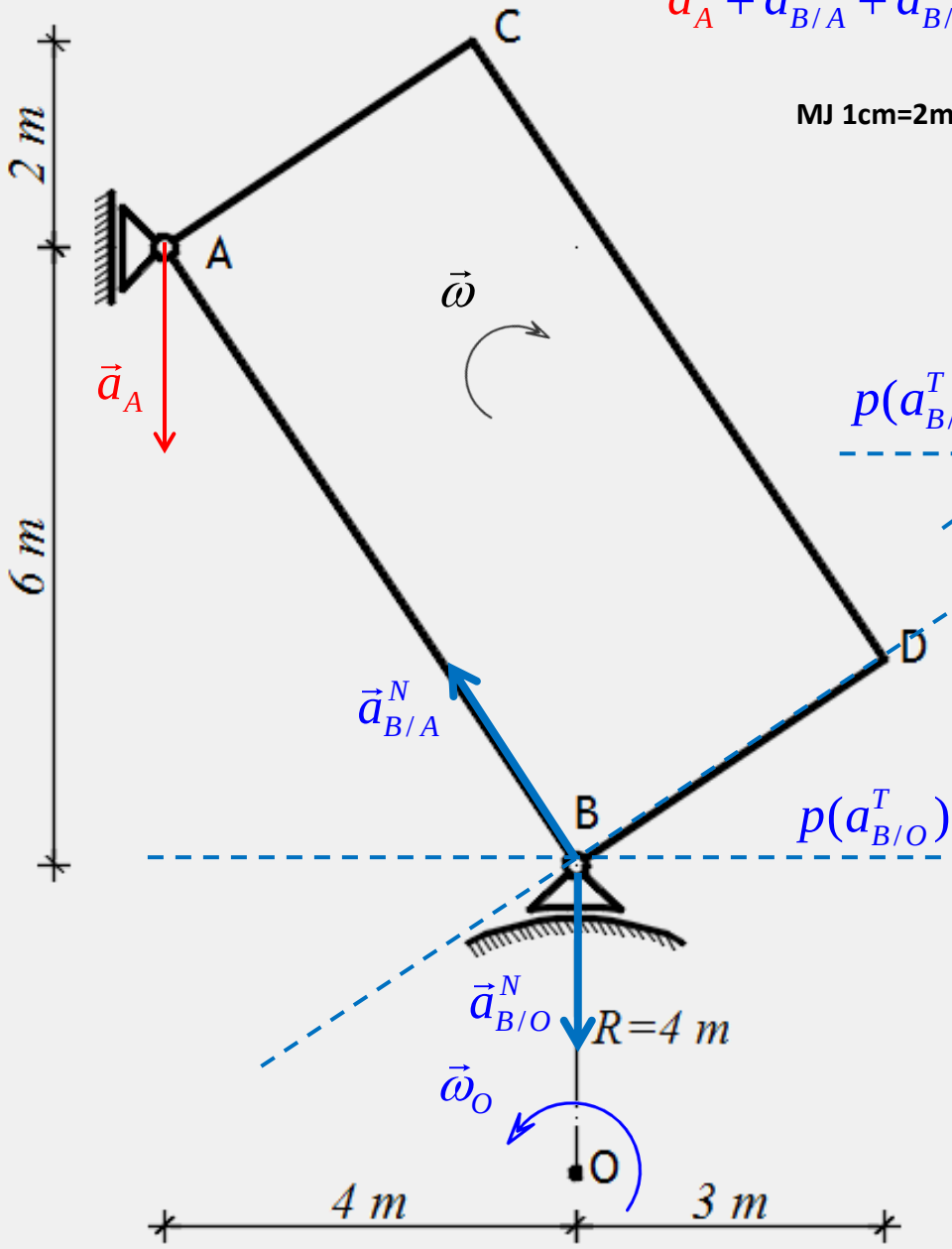

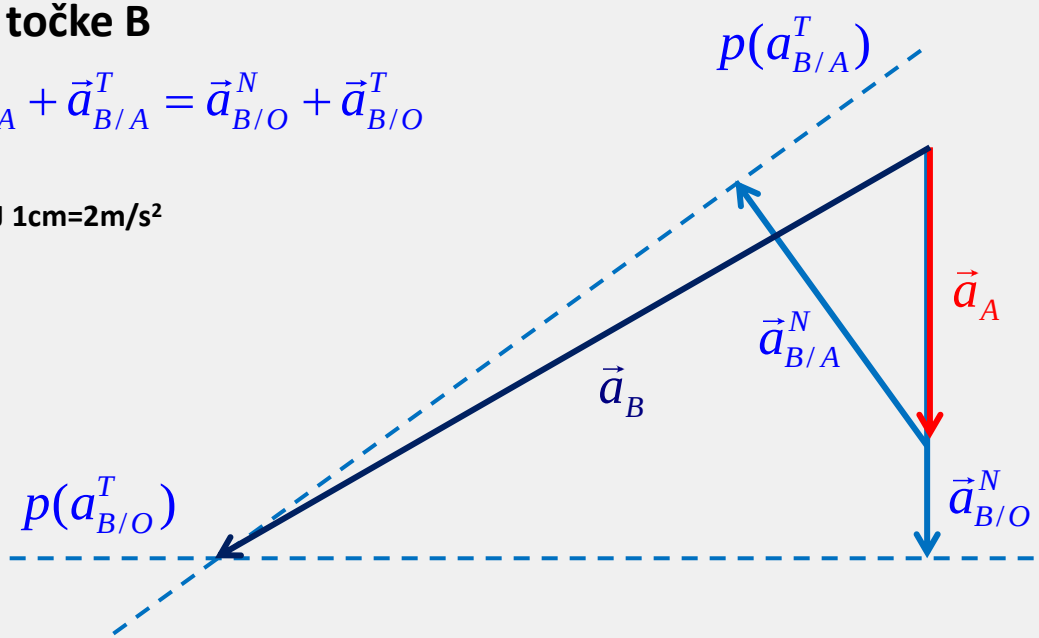

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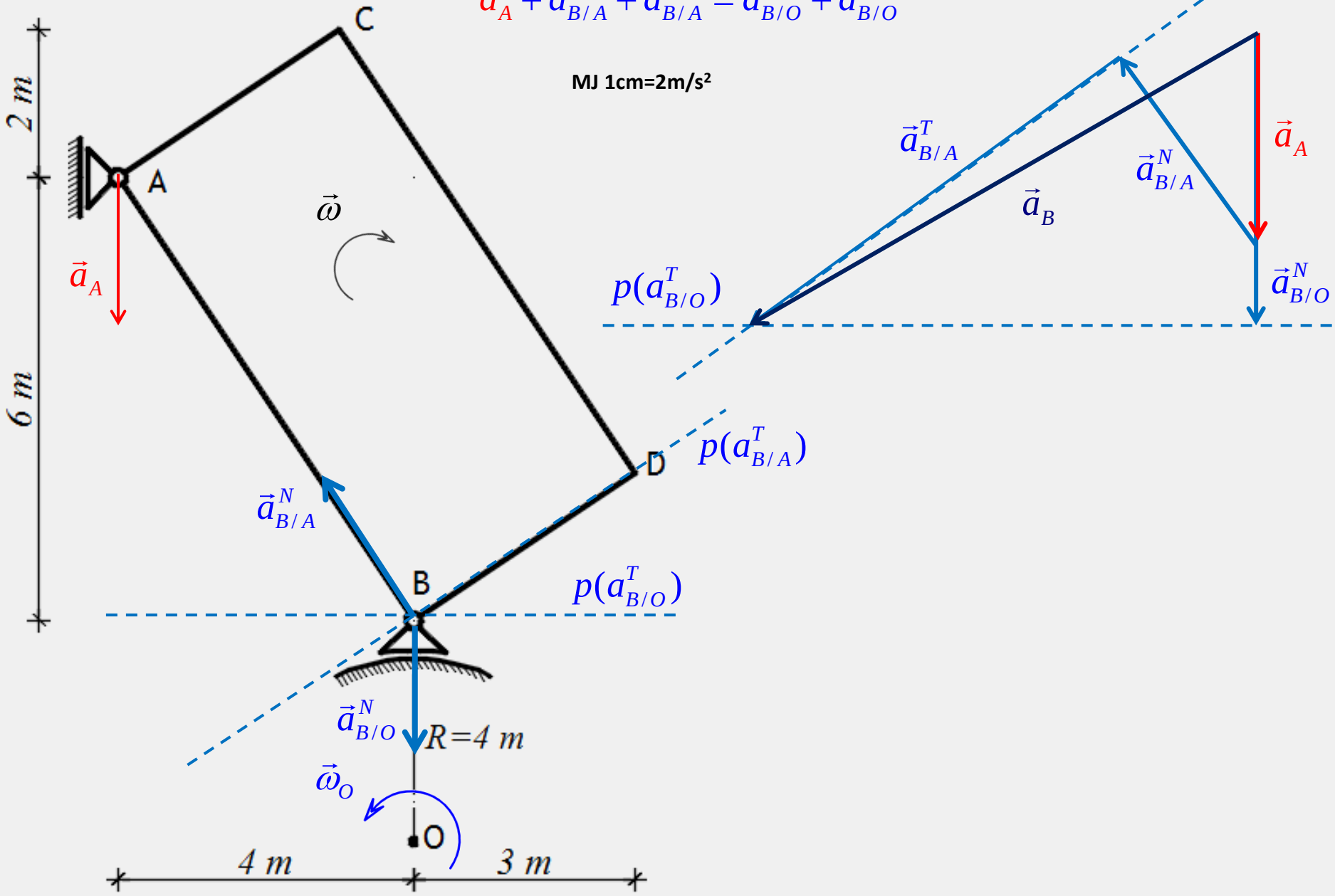

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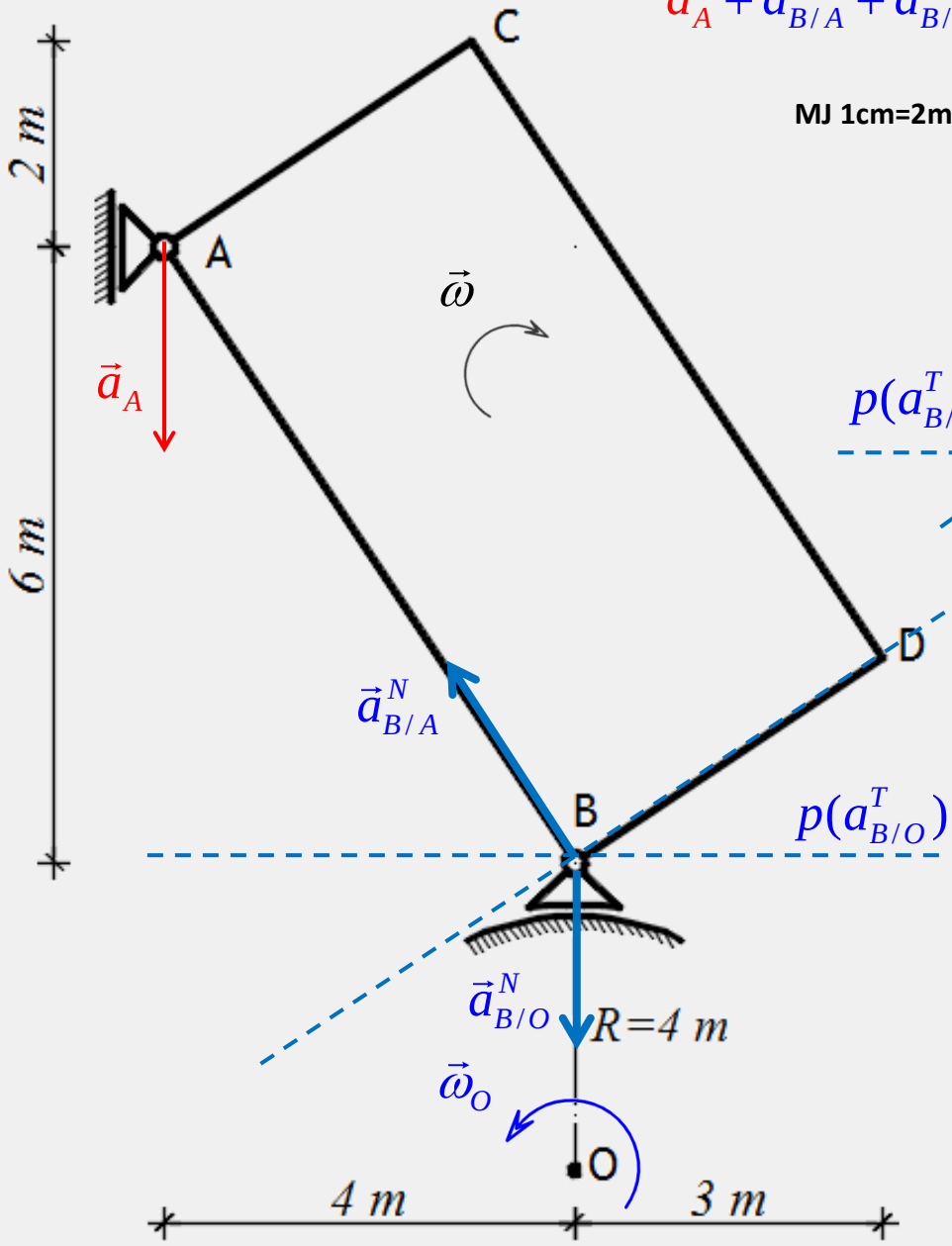

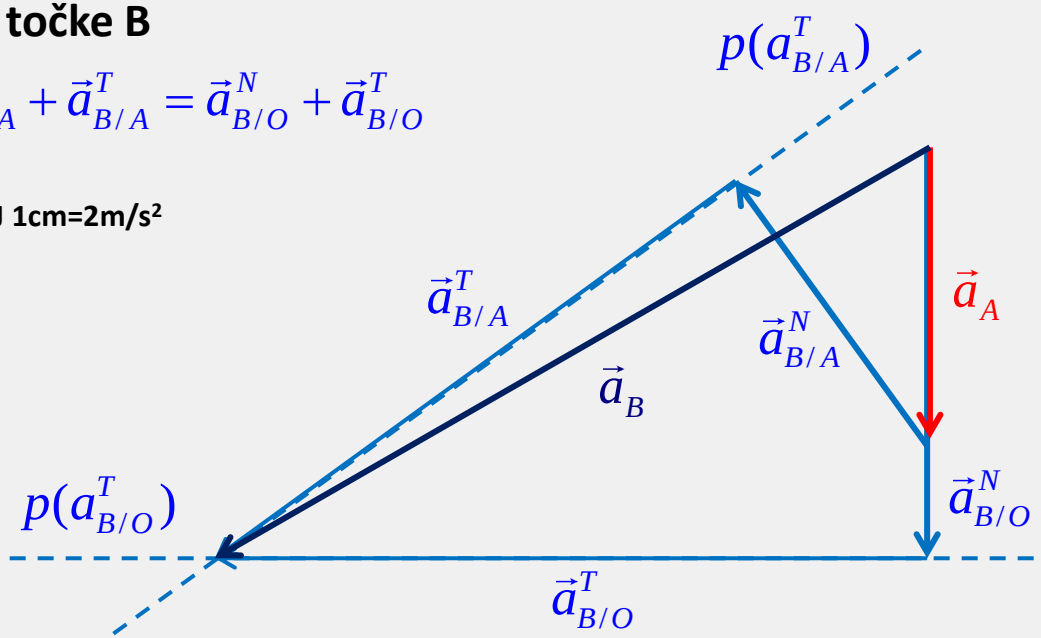

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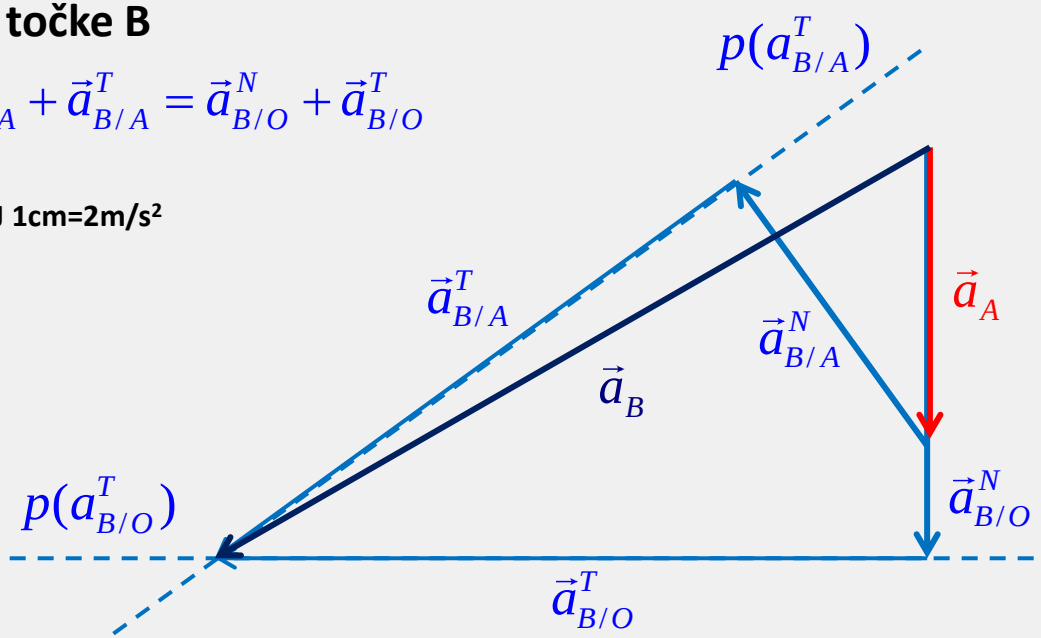

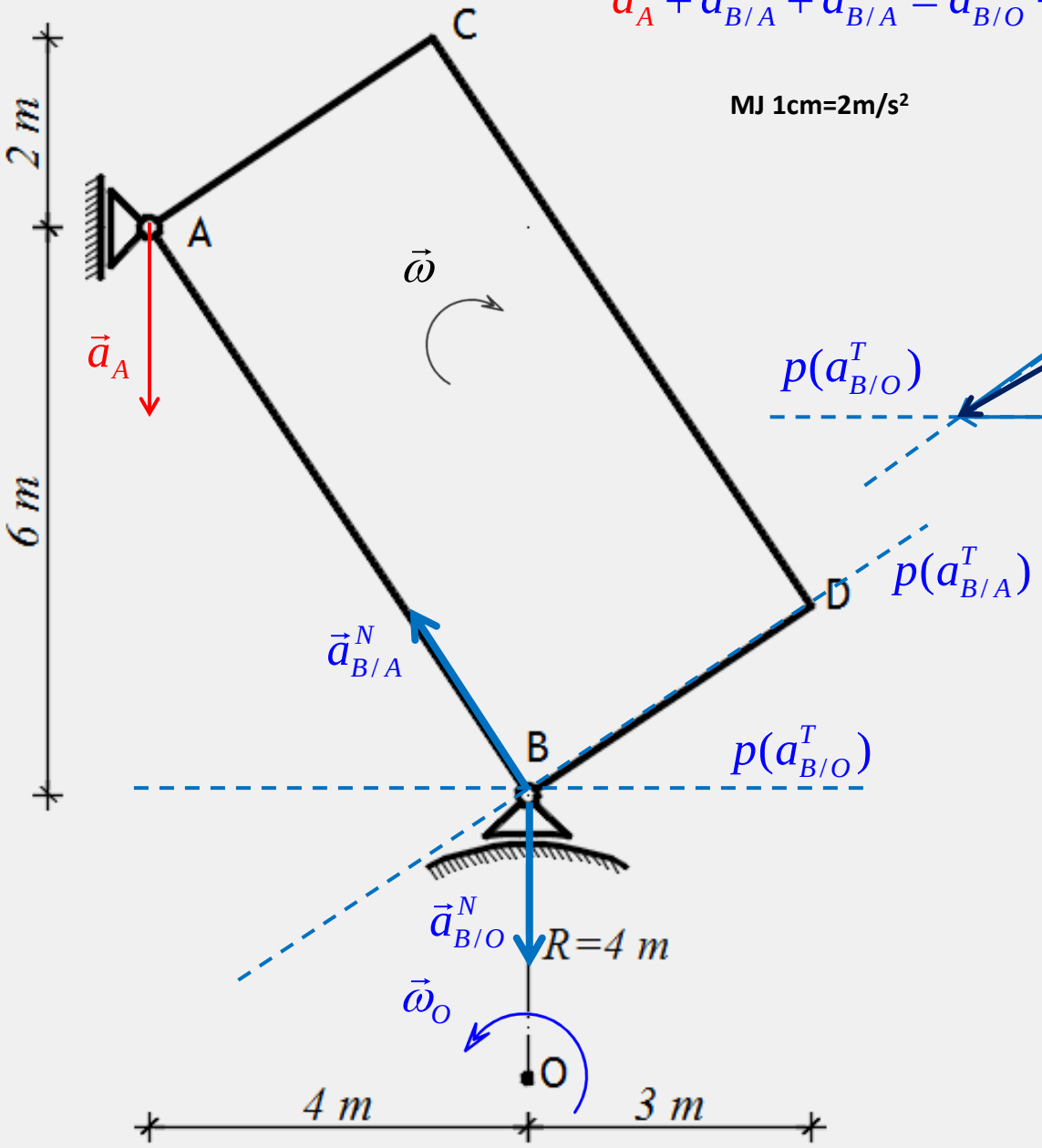

očitano:

UBRZANJA

Ubrzanje točke B

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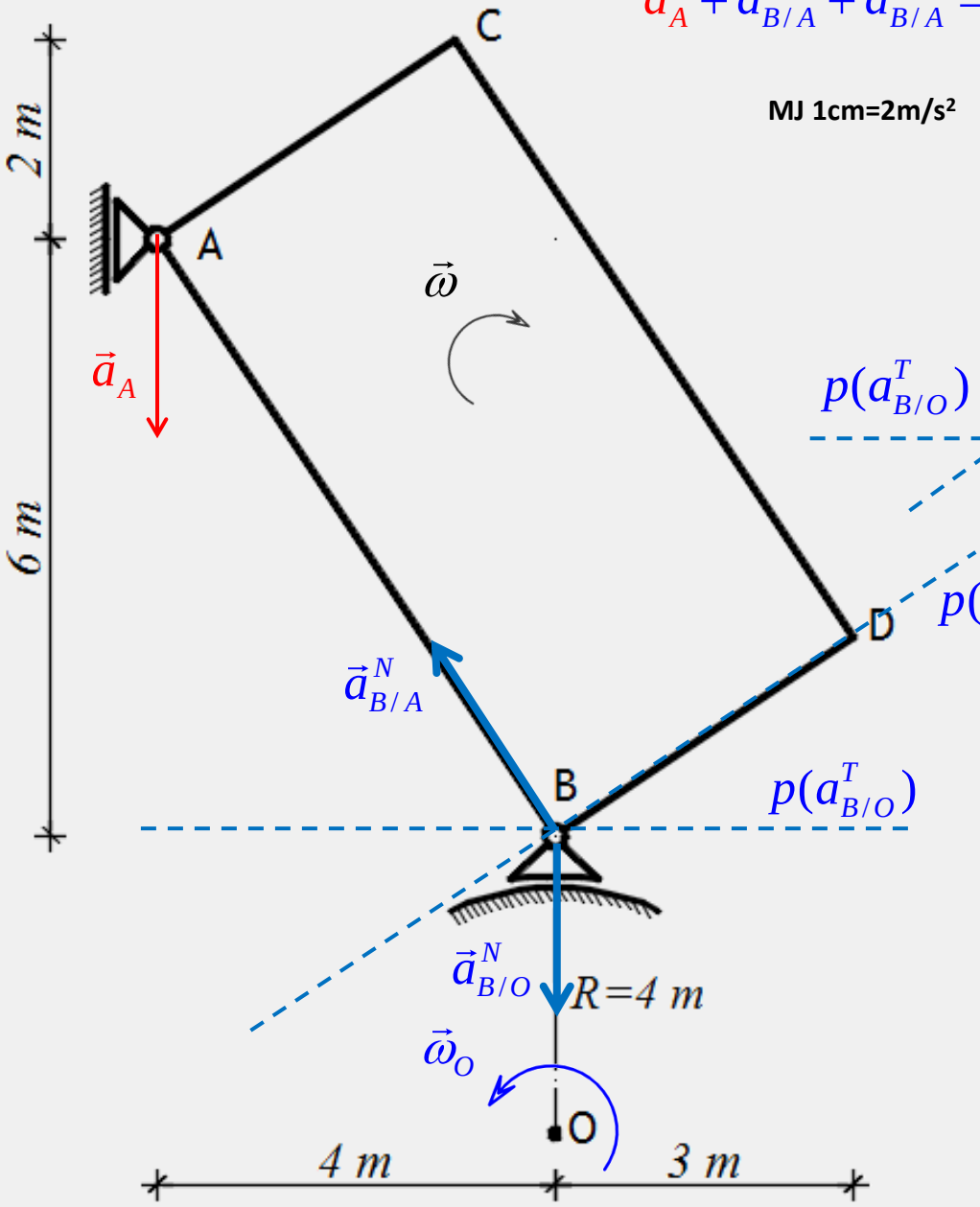
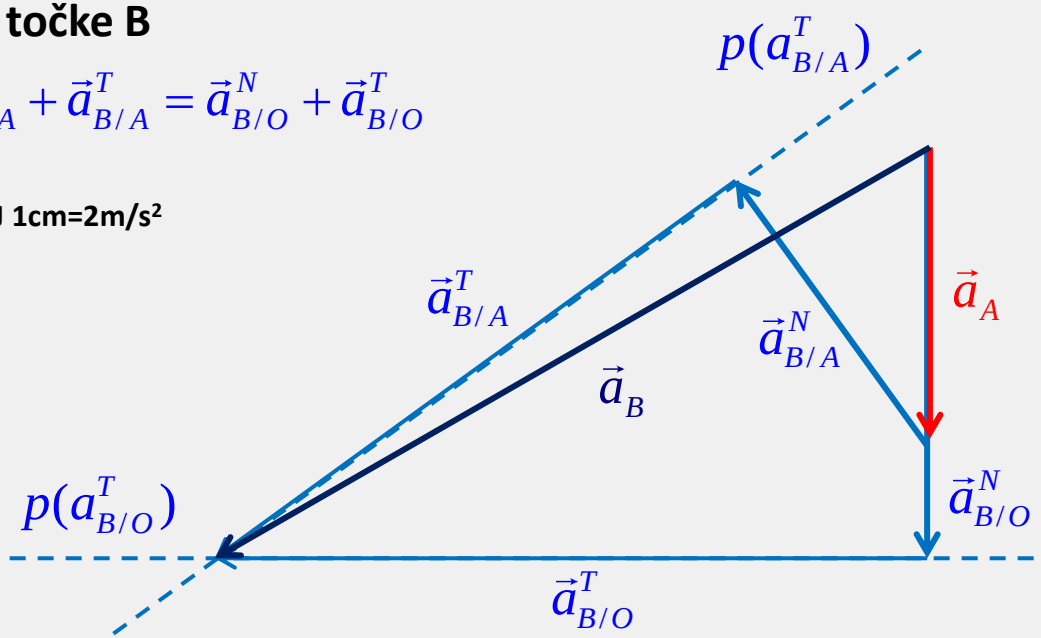




očitano:

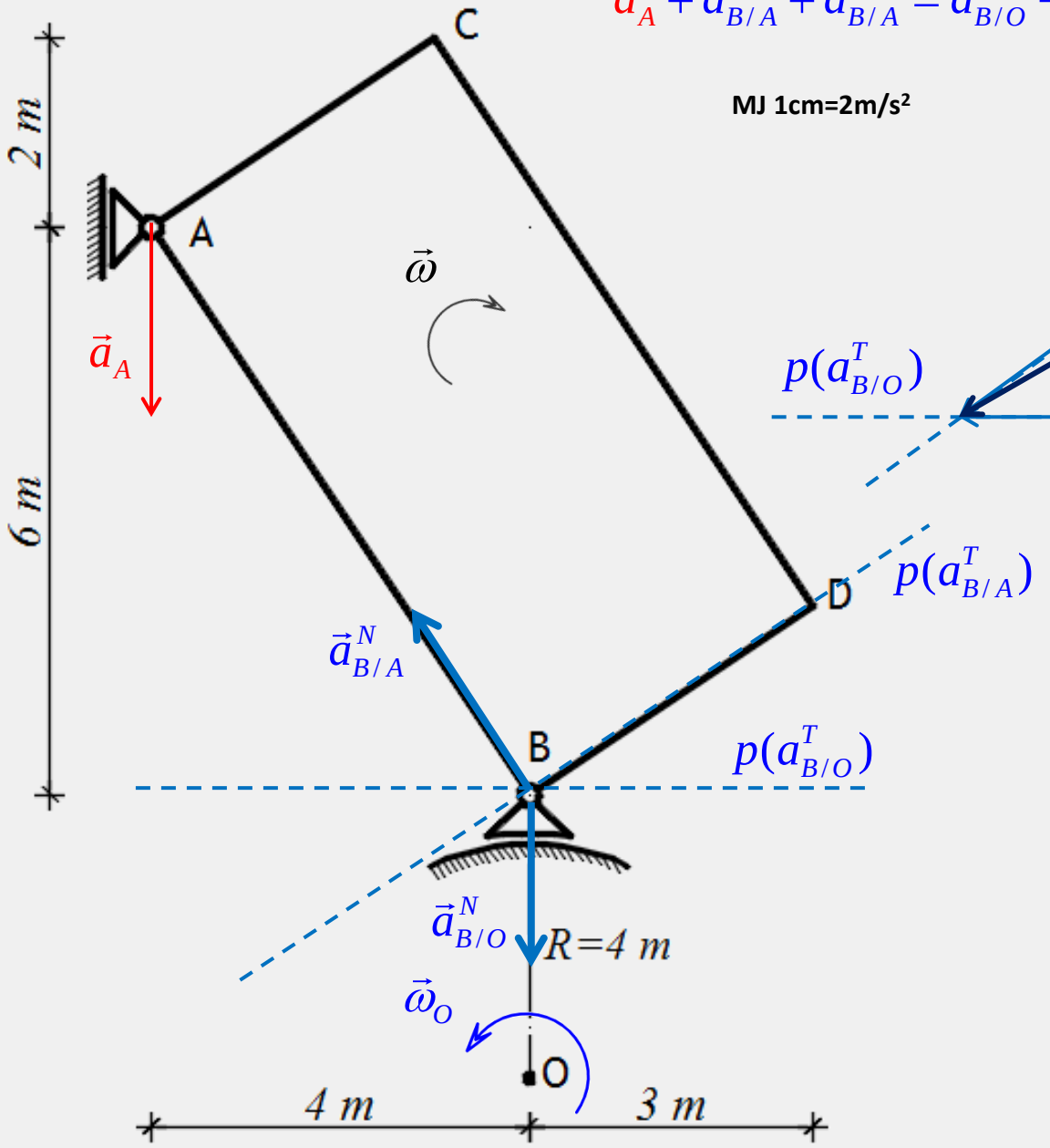
$$a^T_{B/A} = 7,2\ cm = 14,4\ m/s^2$$

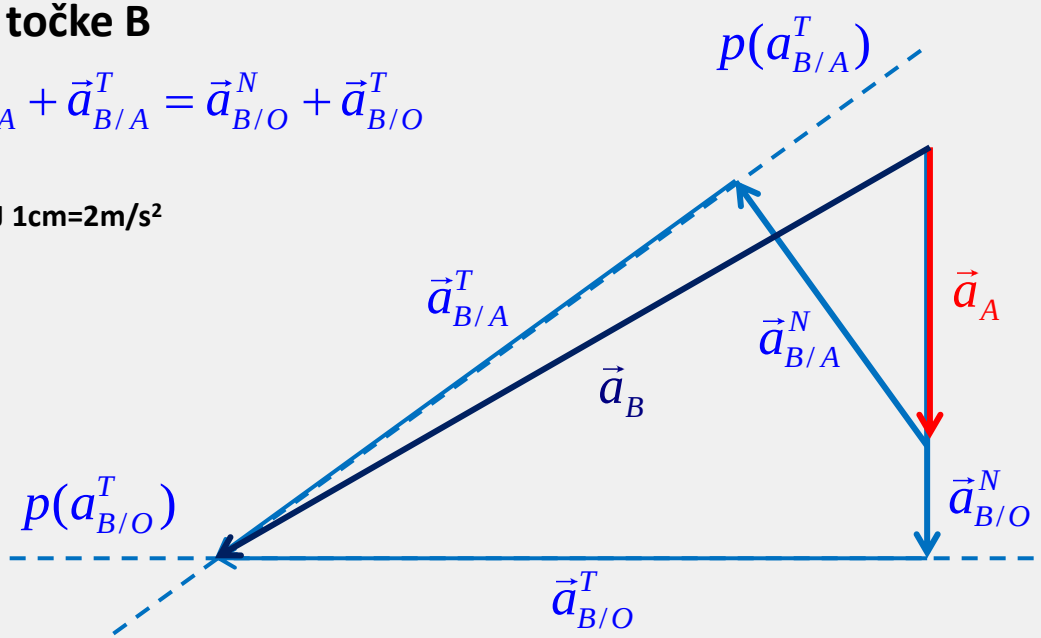
UBRZANJA

Ubrzanje točke B

$$\vec{a}_A + \vec{a}^N_{B/A} + \vec{a}^T_{B/A} = \vec{a}^N_{B/O} + \vec{a}^T_{B/O}$$

MJ 1cm=2m/s²





očitano:

$$a^T_{B/A} = 7,2\ cm = 14,4\ m/s^2$$

$$a^T_{B/O} = 8\ cm = 16\ m/s^2$$

UBRZANJA

Ubrzanje točke B

$$\vec{a}_A + \vec{a}^N_{B/A} + \vec{a}^T_{B/A} = \vec{a}^N_{B/O} + \vec{a}^T_{B/O}$$

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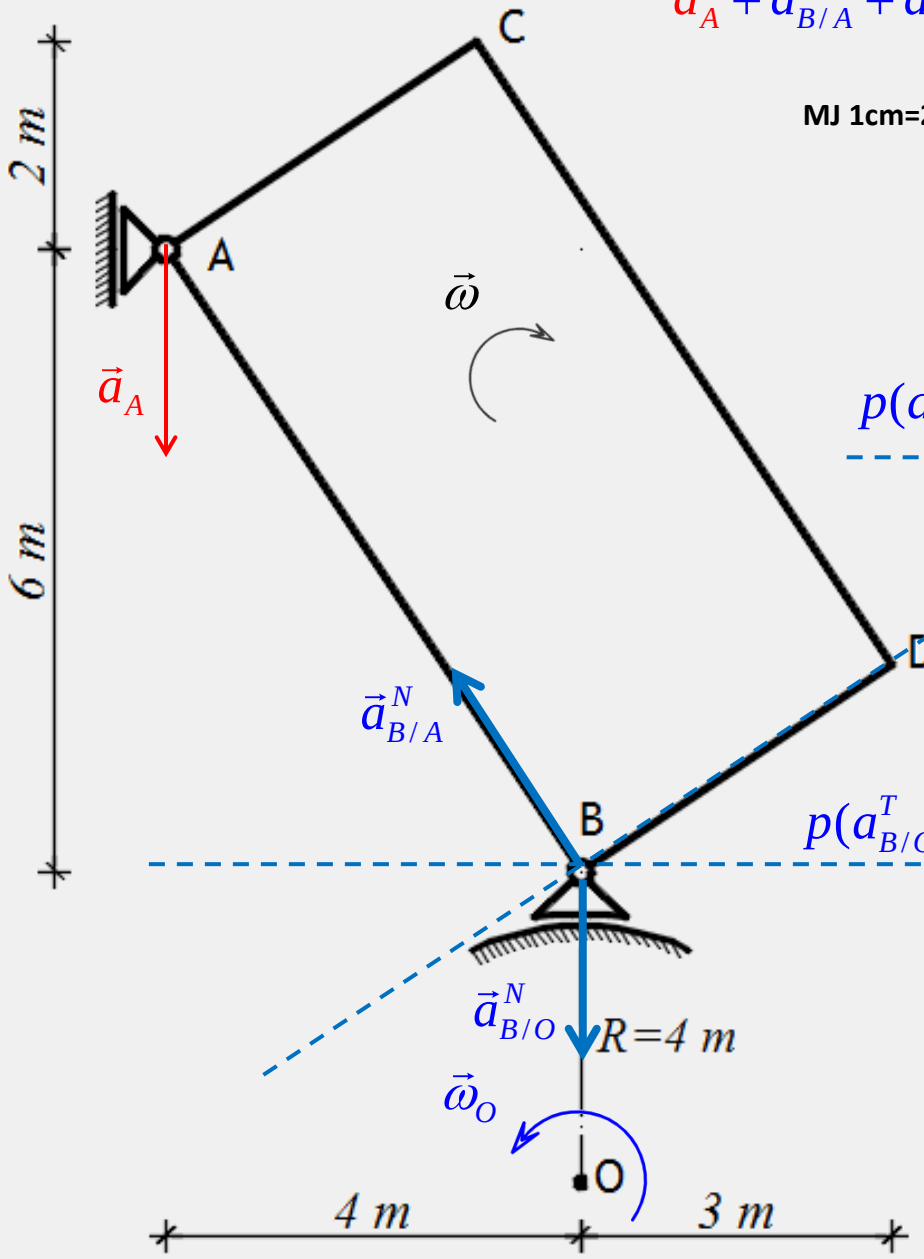

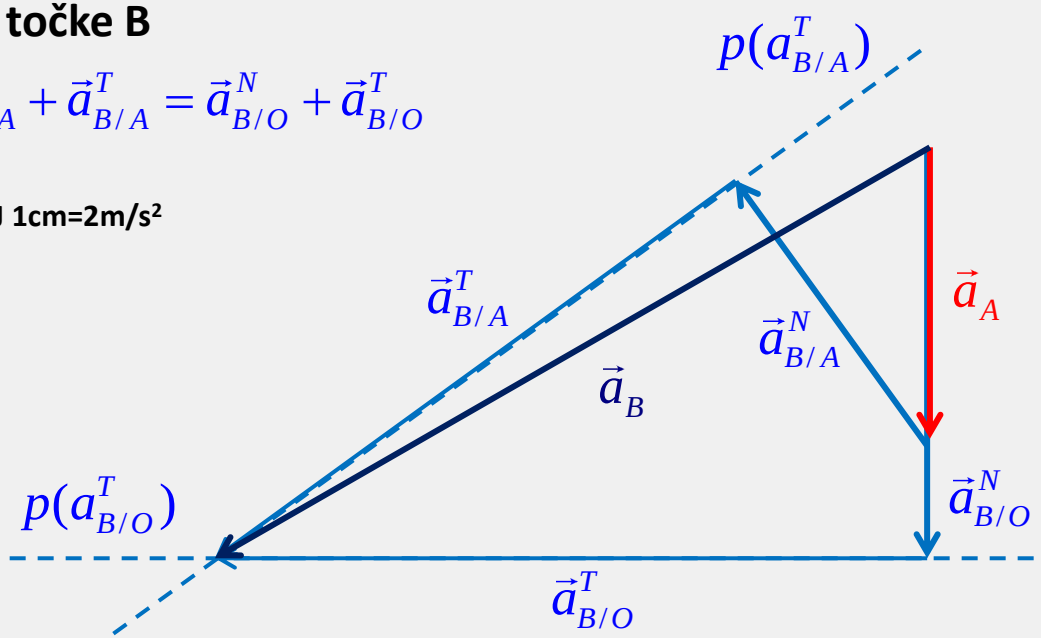

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$$a_B = 9,2\ cm = 18,4\ m/s^2$$

UBRZANJA

Ubrzanje točke B

$$\vec{a}_A + \vec{a}^N_{B/A} + \vec{a}^T_{B/A} = \vec{a}^N_{B/O} + \vec{a}^T_{B/O}$$

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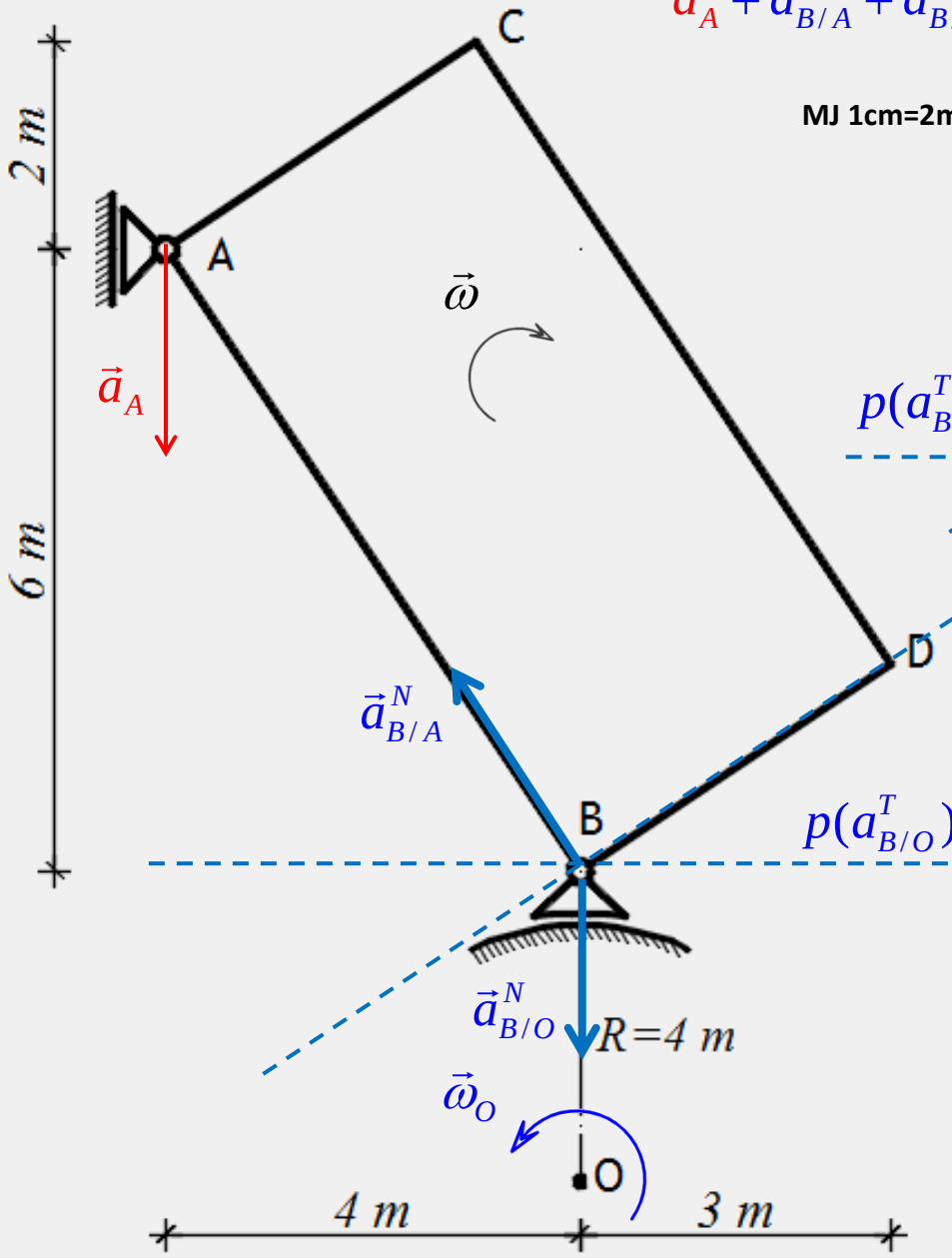

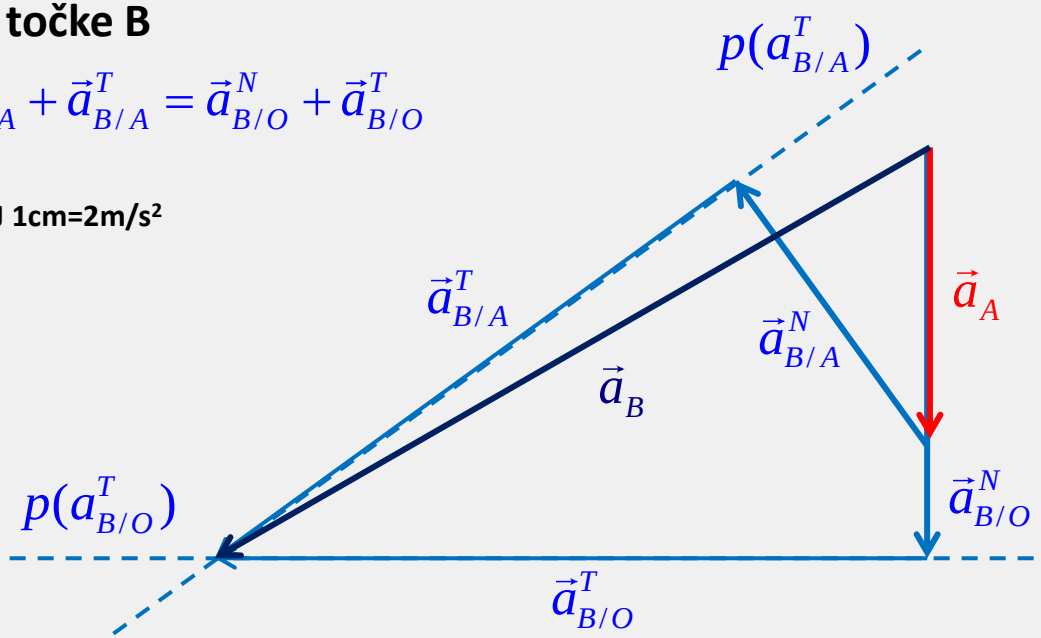

očitano:

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$$a^T_{B/O} = 8\ cm = 16\ m/s^2$$

$$a_B = 9,2\ cm = 18,4\ m/s^2$$

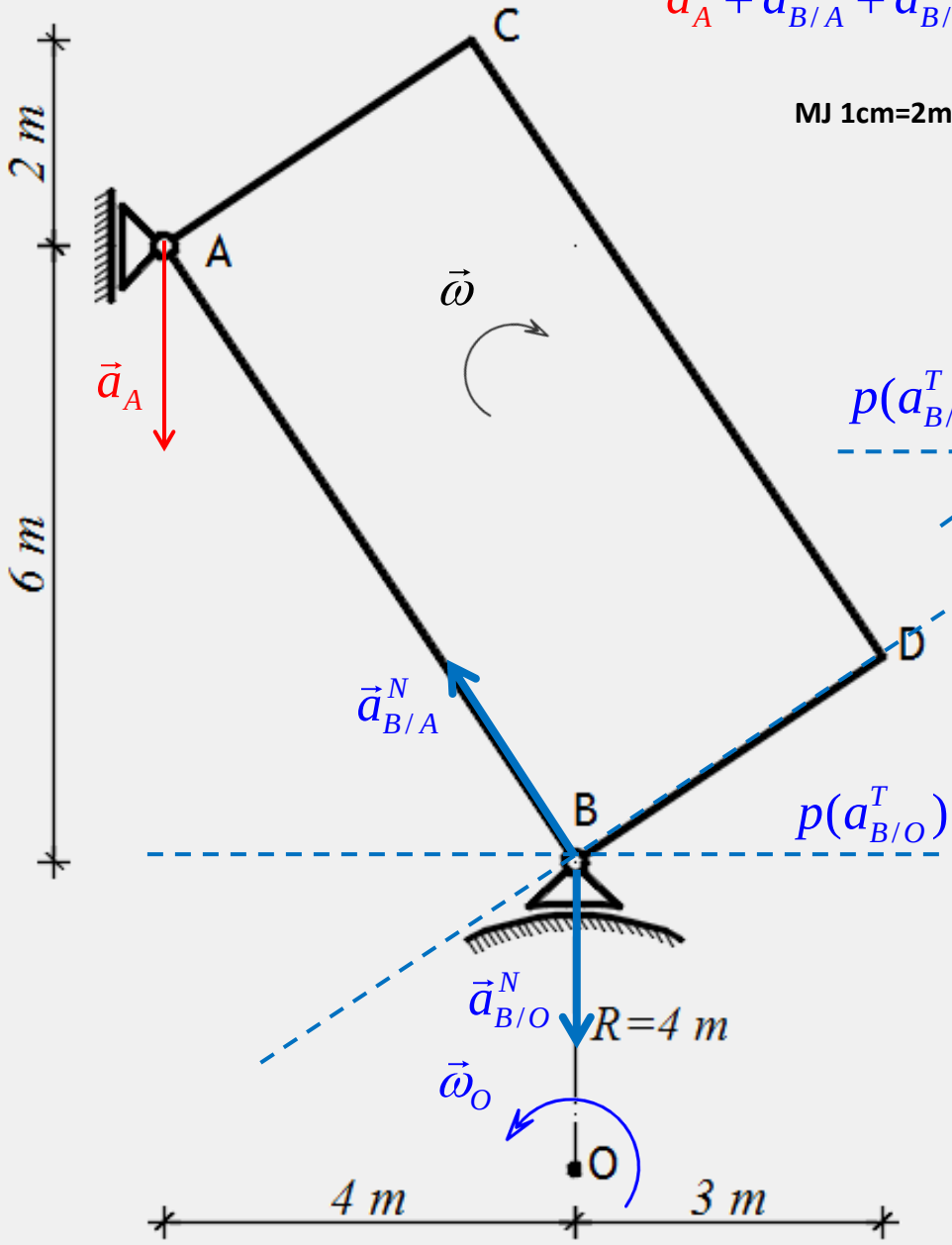
$$\vec{a}_B = -16\vec{i} - 9\vec{j}$$

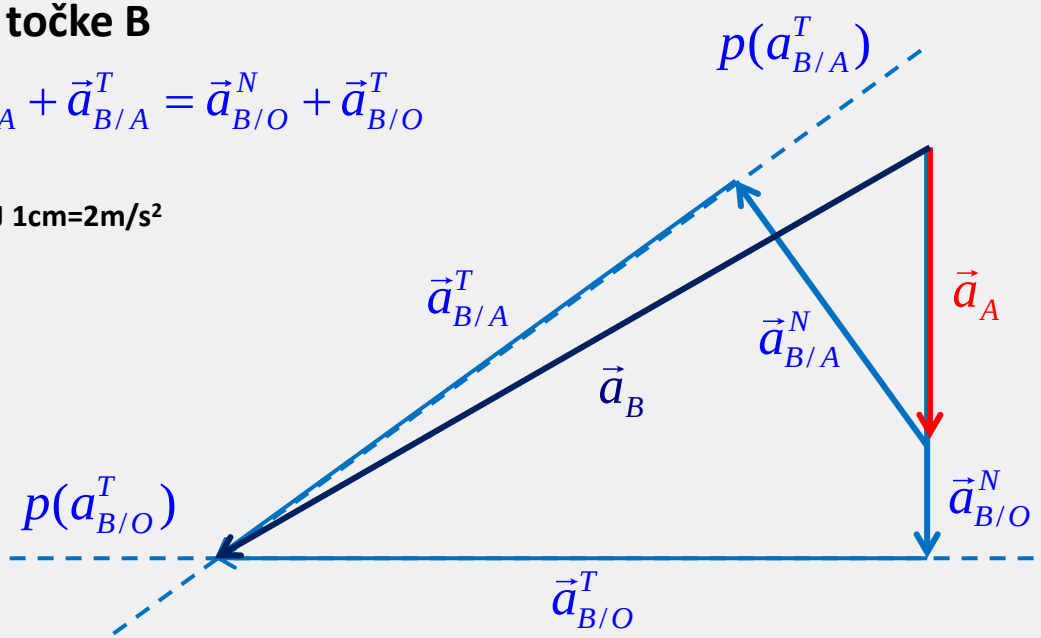
UBRZANJA

Ubrzanje točke B

$$\vec{a}_A + \vec{a}^N_{B/A} + \vec{a}^T_{B/A} = \vec{a}^N_{B/O} + \vec{a}^T_{B/O}$$

MJ 1cm=2m/s²





očitano:

$$a^T_{B/A} = 7,2\ cm = 14,4\ m/s^2$$

$$a^T_{B/O} = 8\ cm = 16\ m/s^2$$

$$a_B = 9,2\ cm = 18,4\ m/s^2$$

$$\vec{a}_B = -16\vec{i} - 9\vec{j}$$

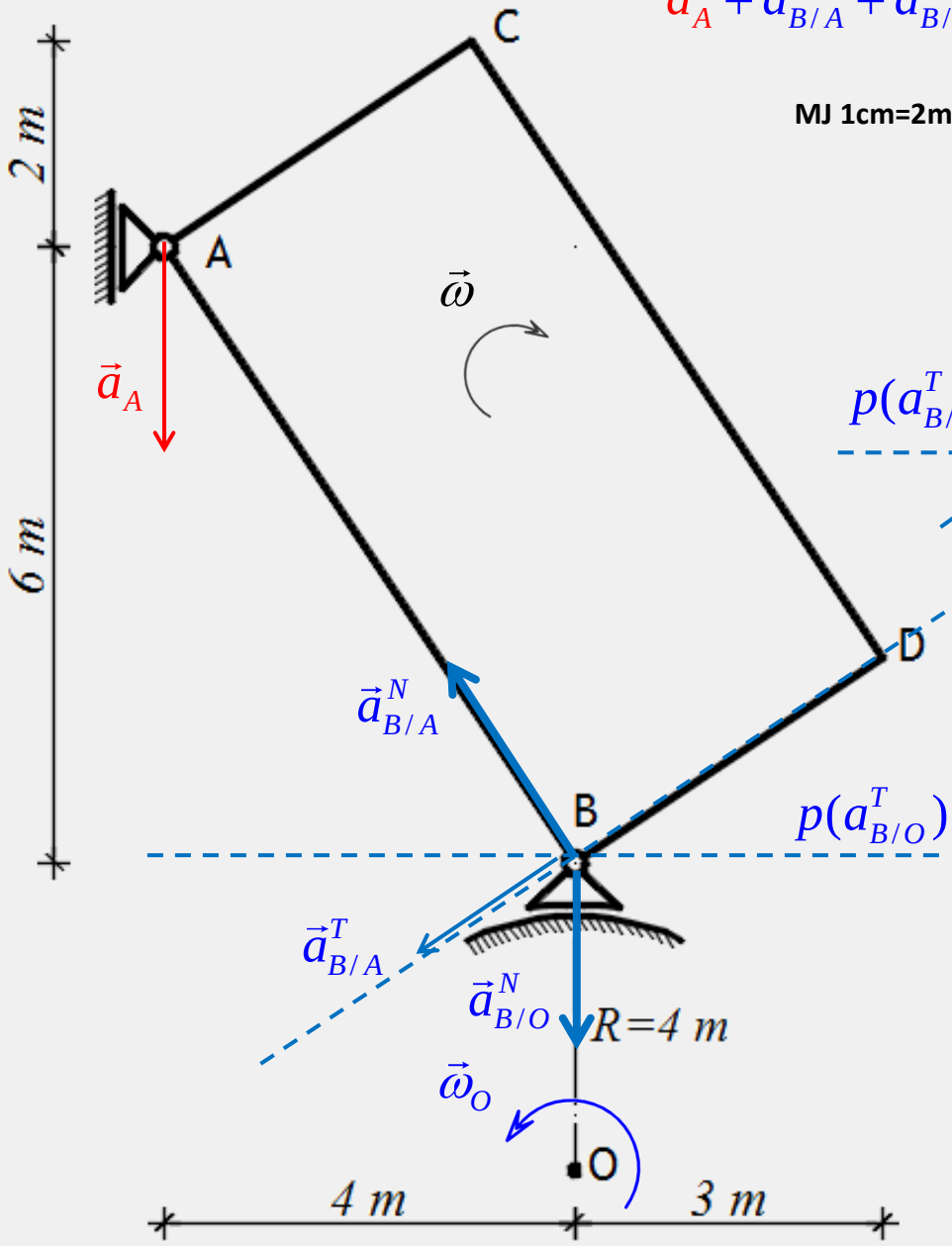
$$\varepsilon = \frac{a^T_{B/A}}{\overline{AB}} = \frac{14,4}{7,2} = 2\ \ r/s^2$$

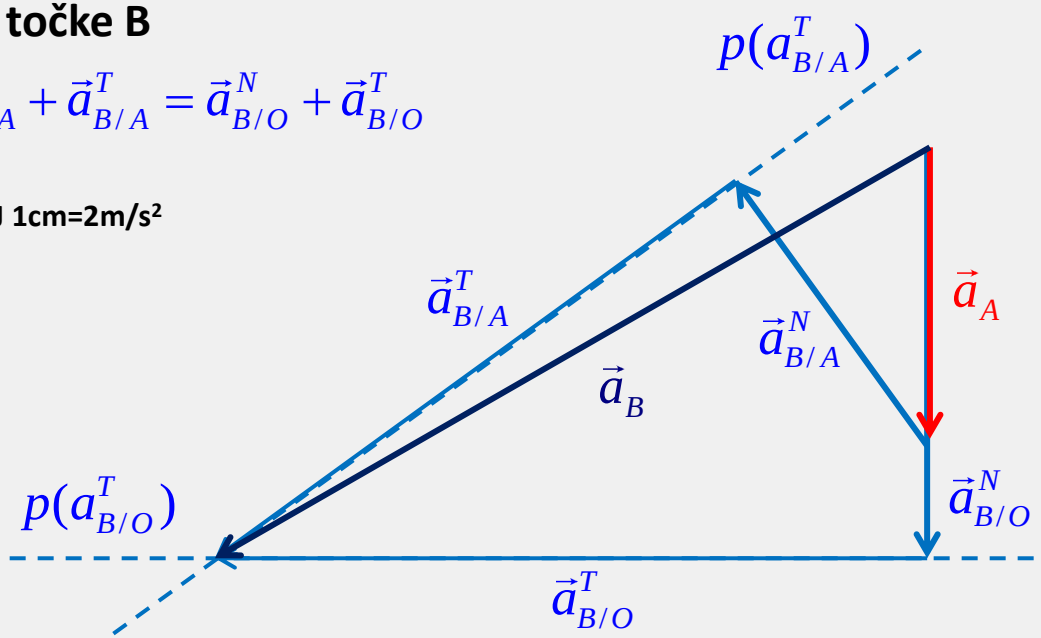
UBRZANJA

Ubrzanje točke B

$$\vec{a}_A + \vec{a}^N_{B/A} + \vec{a}^T_{B/A} = \vec{a}^N_{B/O} + \vec{a}^T_{B/O}$$

MJ 1cm=2m/s²





očitano:

$$a^T_{B/A} = 7,2\ cm = 14,4\ m/s^2$$

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$$a_B = 9,2\ cm = 18,4\ m/s^2$$

$$\vec{a}_B = -16\vec{i} - 9\vec{j}$$

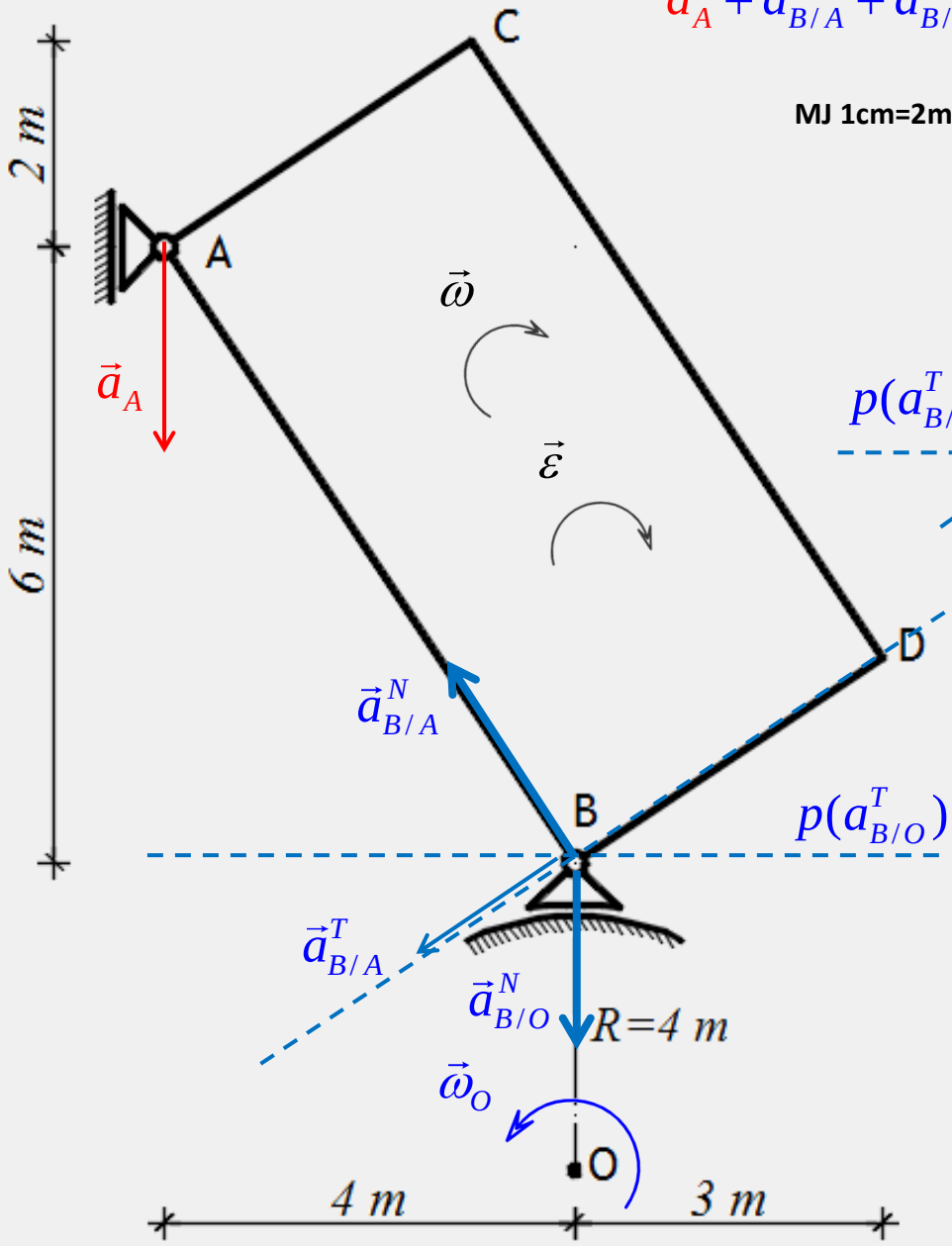
$$\varepsilon = \frac{a^T_{B/A}}{\overline{AB}} = \frac{14,4}{7,2} = 2\ \ r/s^2$$

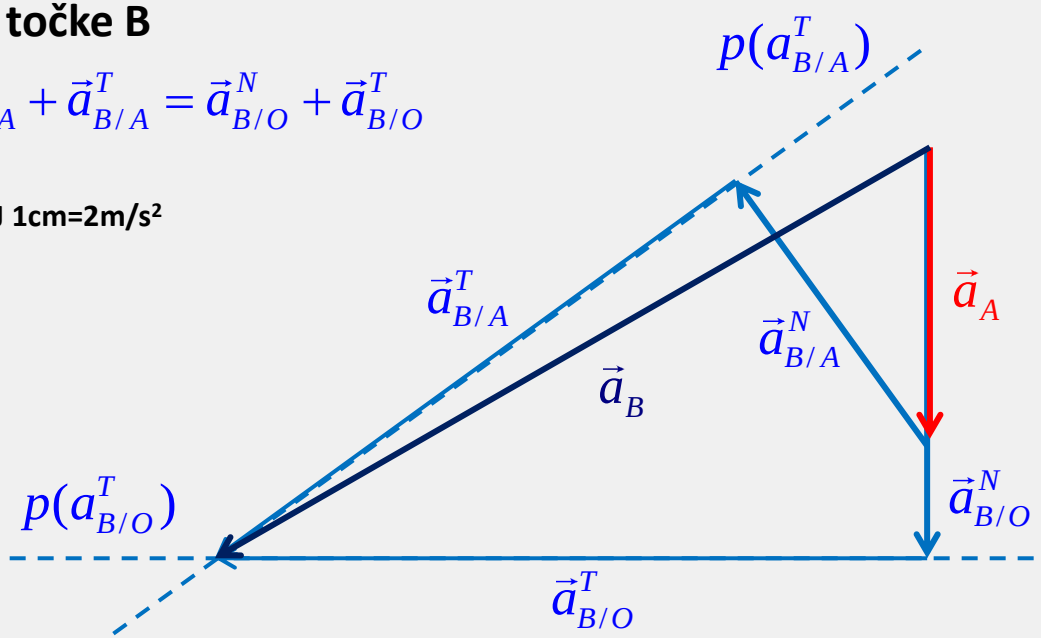
UBRZANJA

Ubrzanje točke B

$$\vec{a}_A + \vec{a}^N_{B/A} + \vec{a}^T_{B/A} = \vec{a}^N_{B/O} + \vec{a}^T_{B/O}$$

MJ 1cm=2m/s²





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UBRZANJA

Ubrzanje točke B

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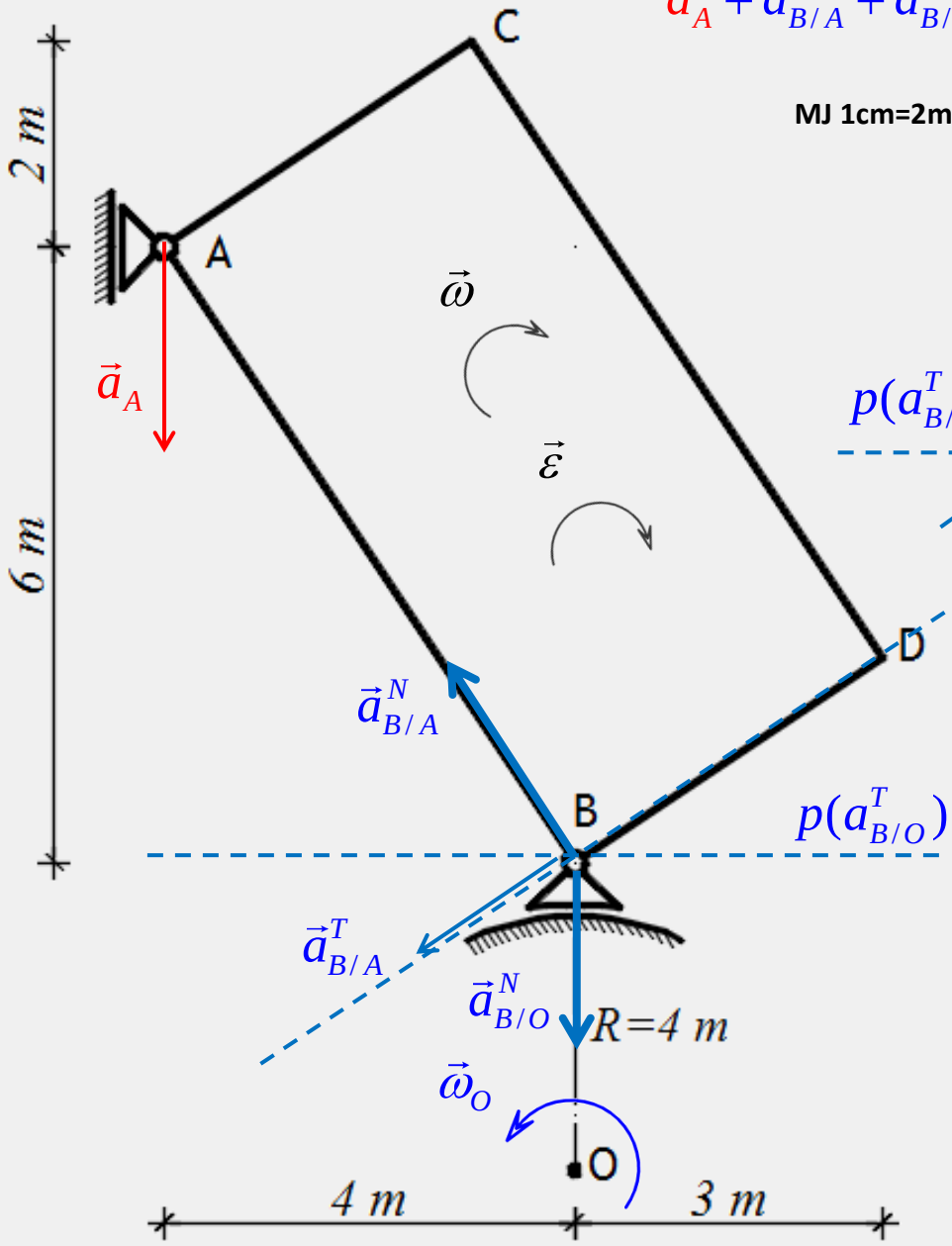

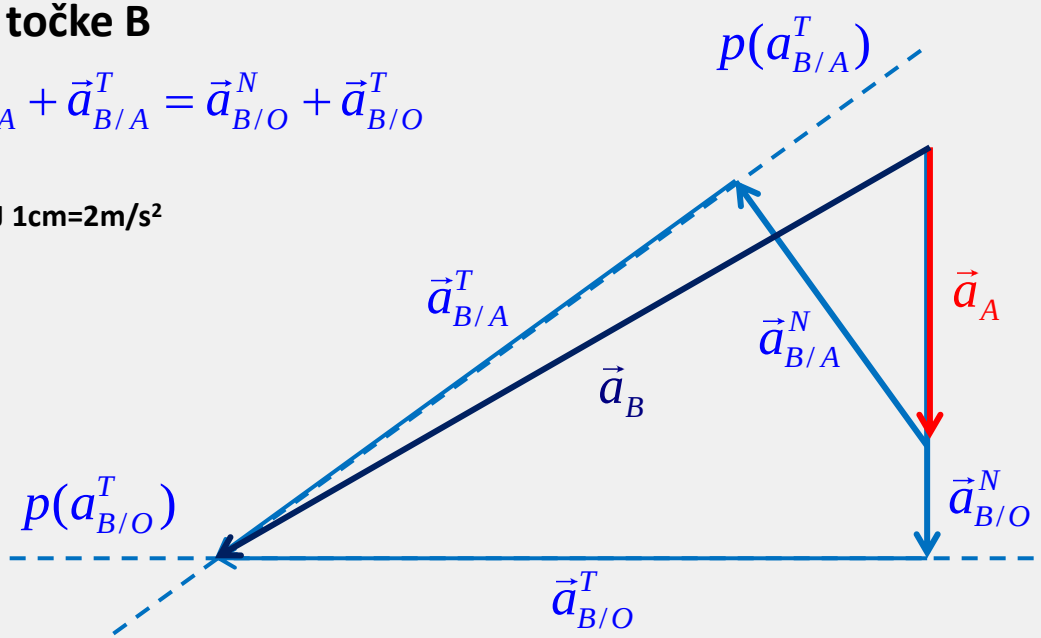

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UBRZANJA

Ubrzanje točke B

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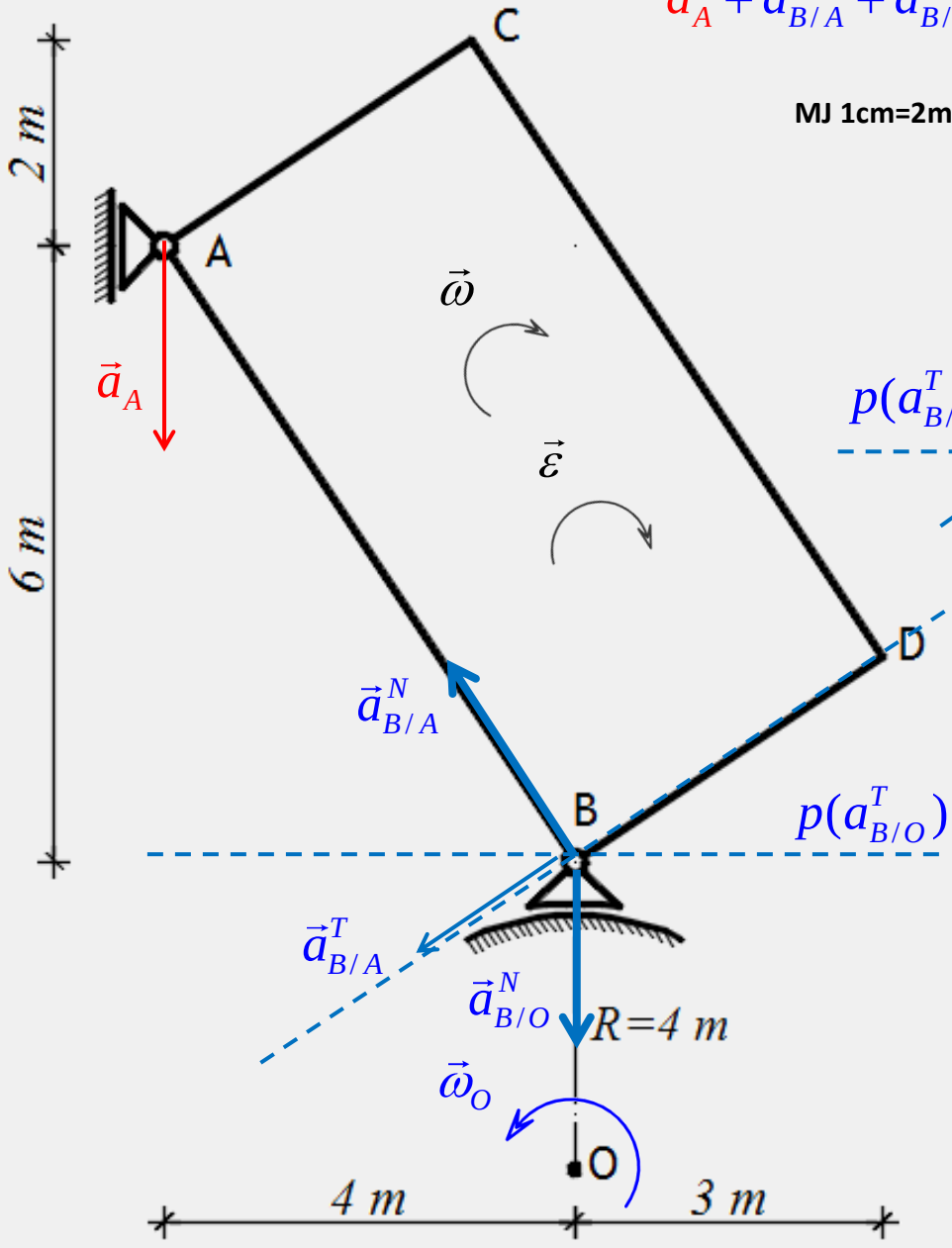

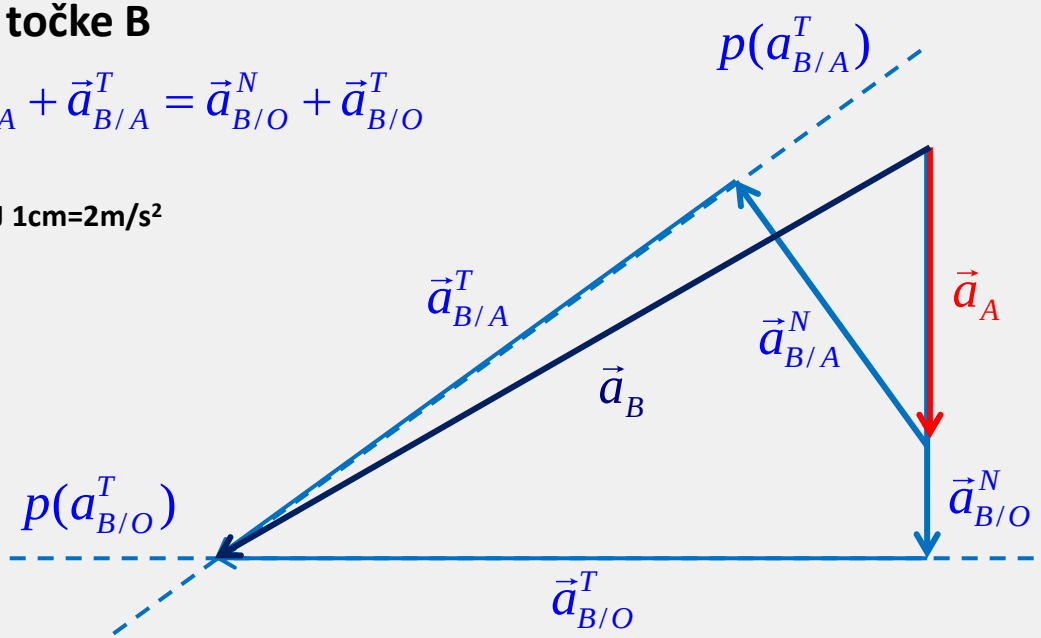

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UBRZANJA

Ubrzanje točke B

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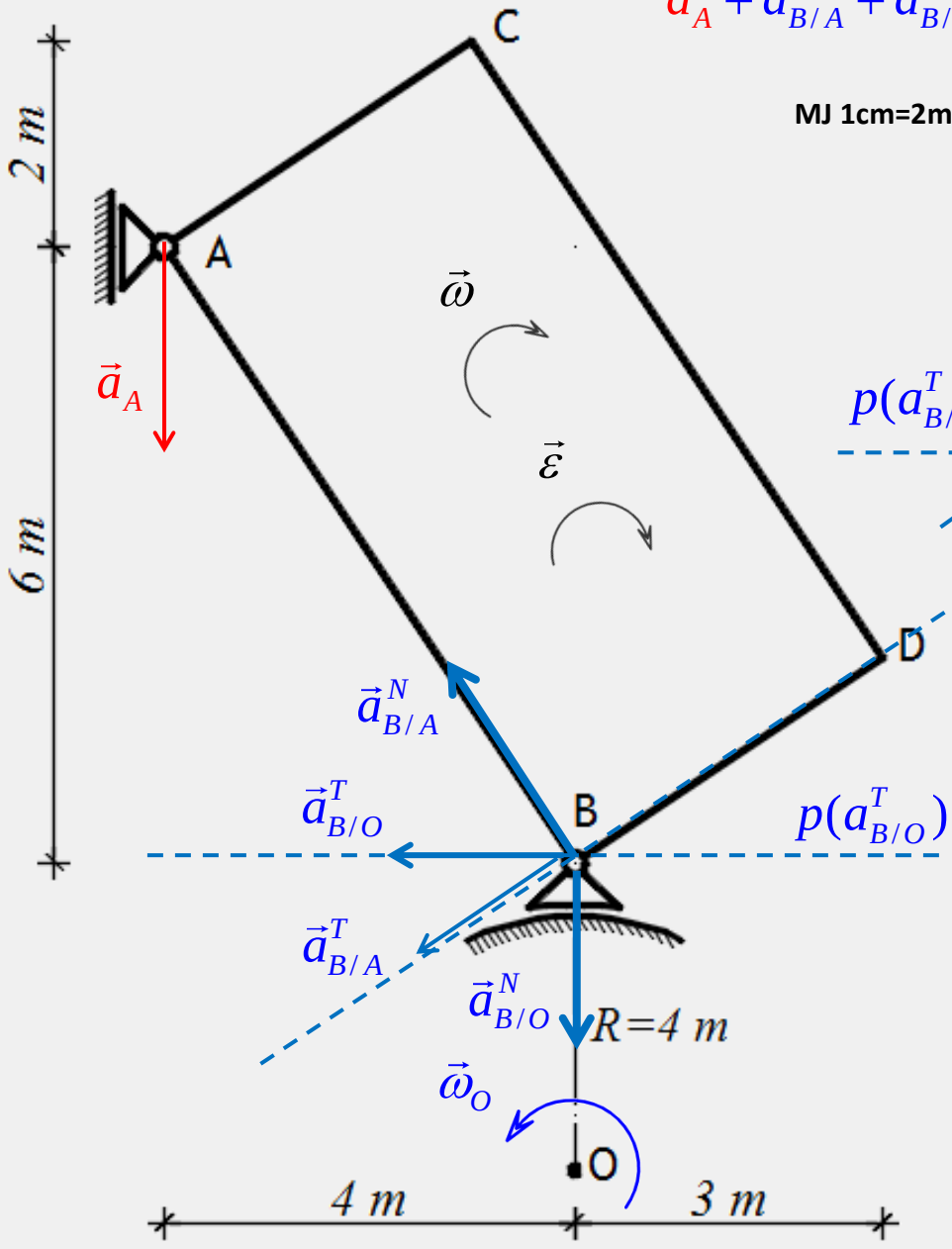

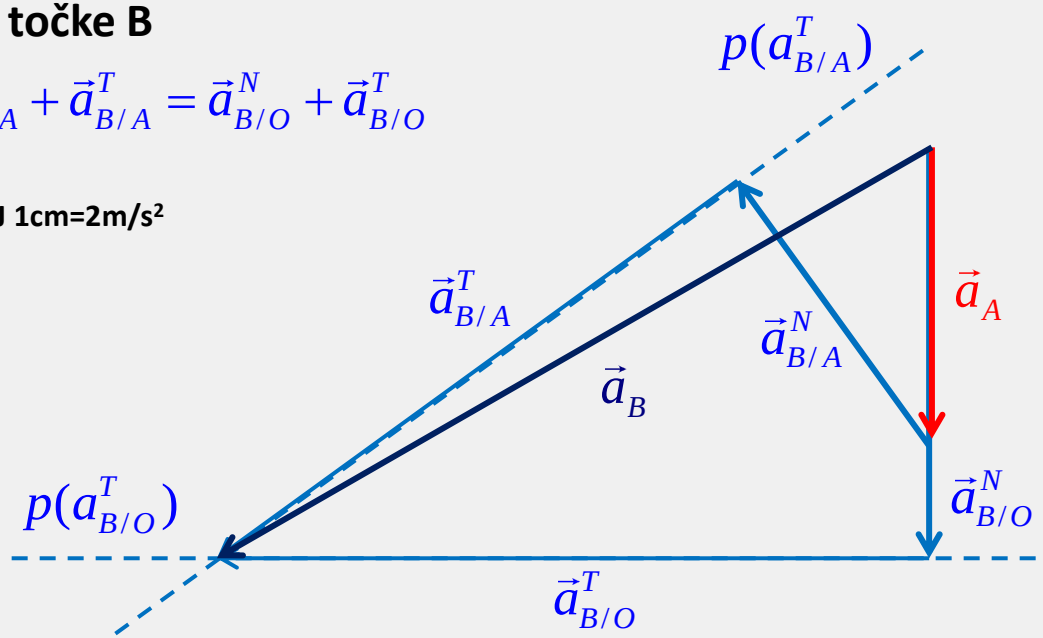

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UBRZANJA

Ubrzanje točke B

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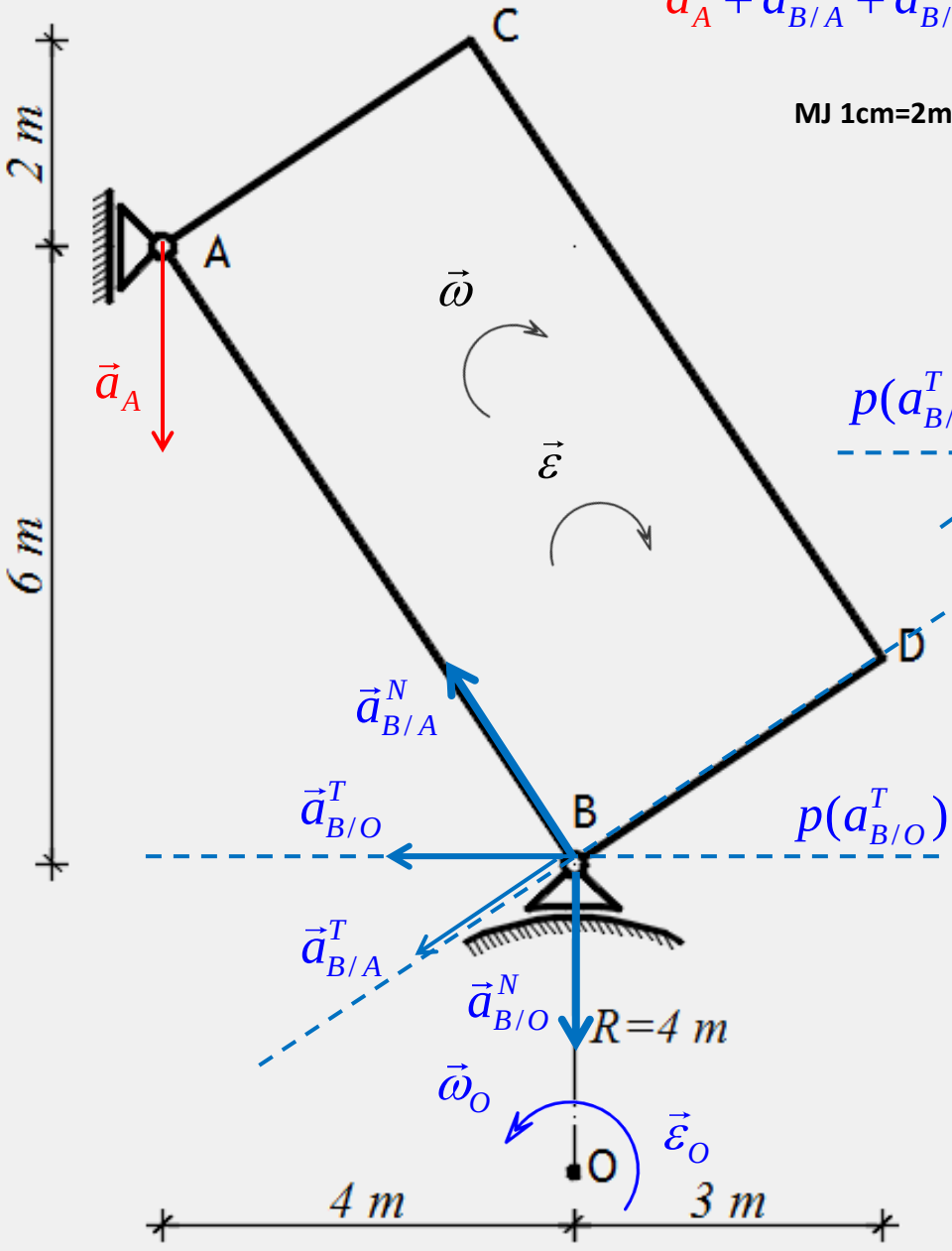

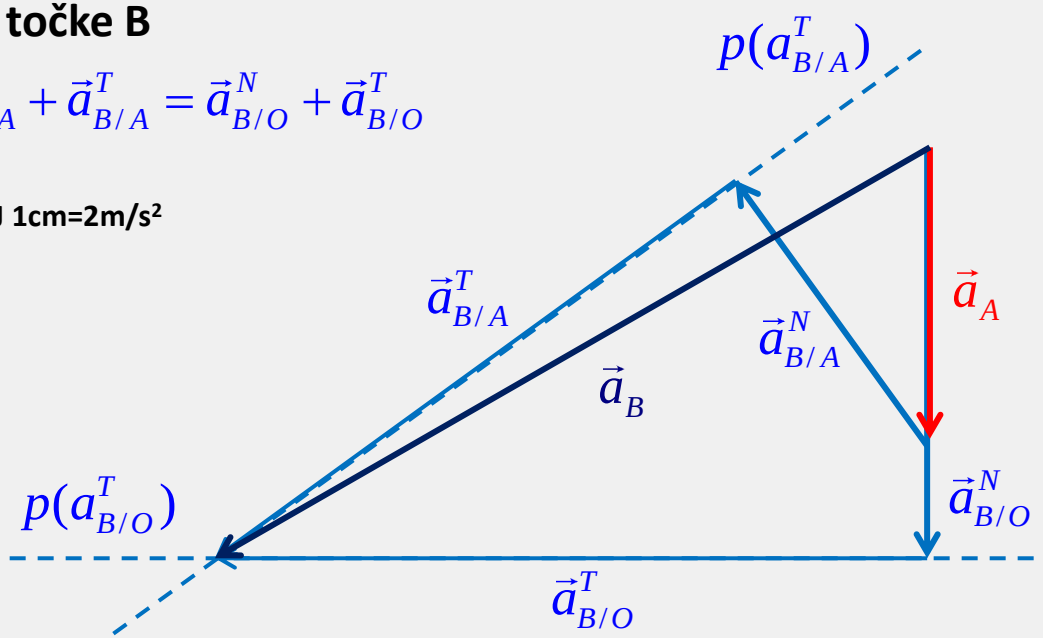

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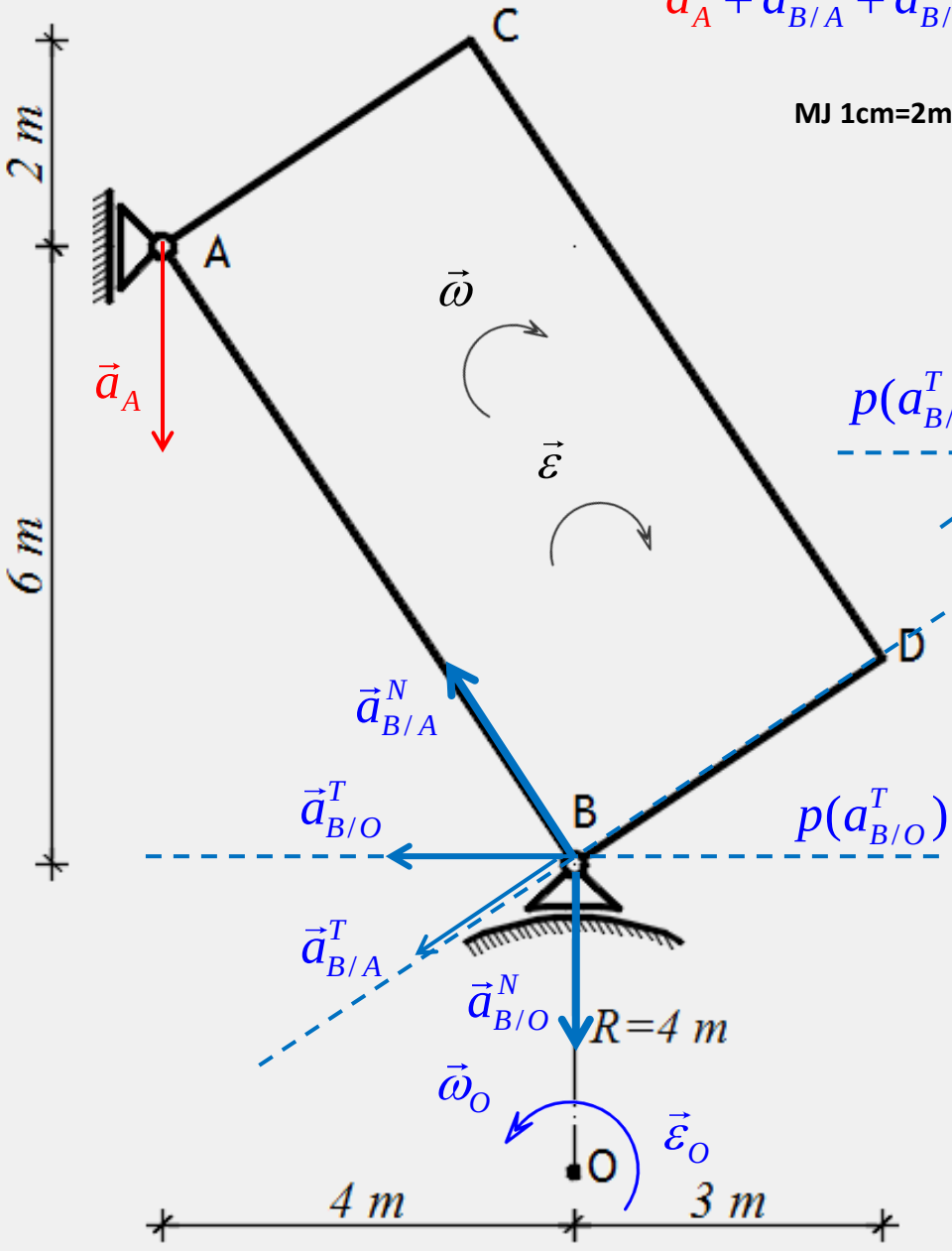

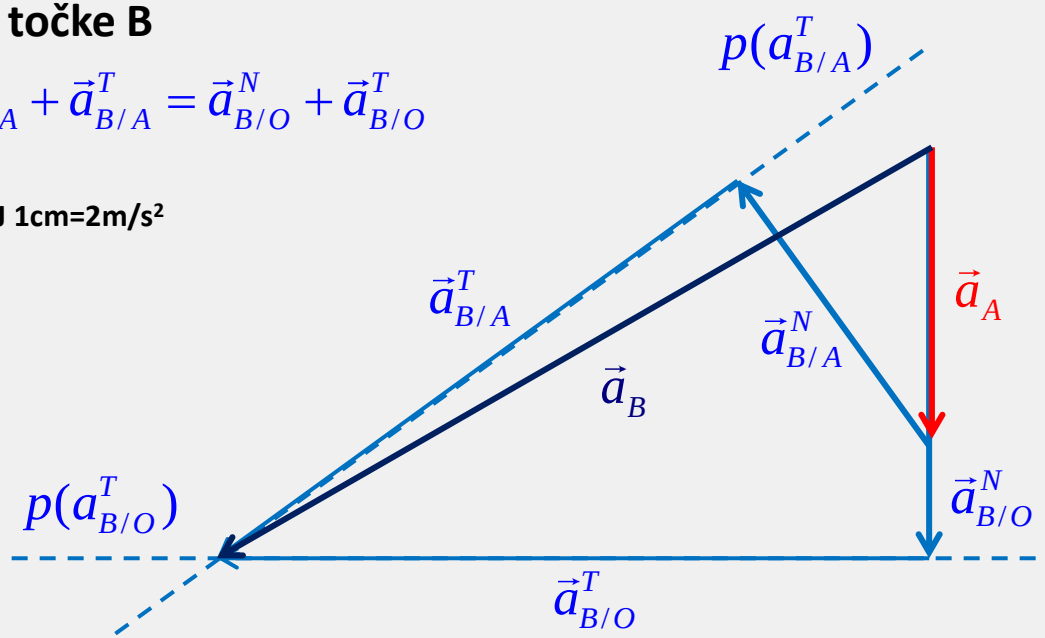

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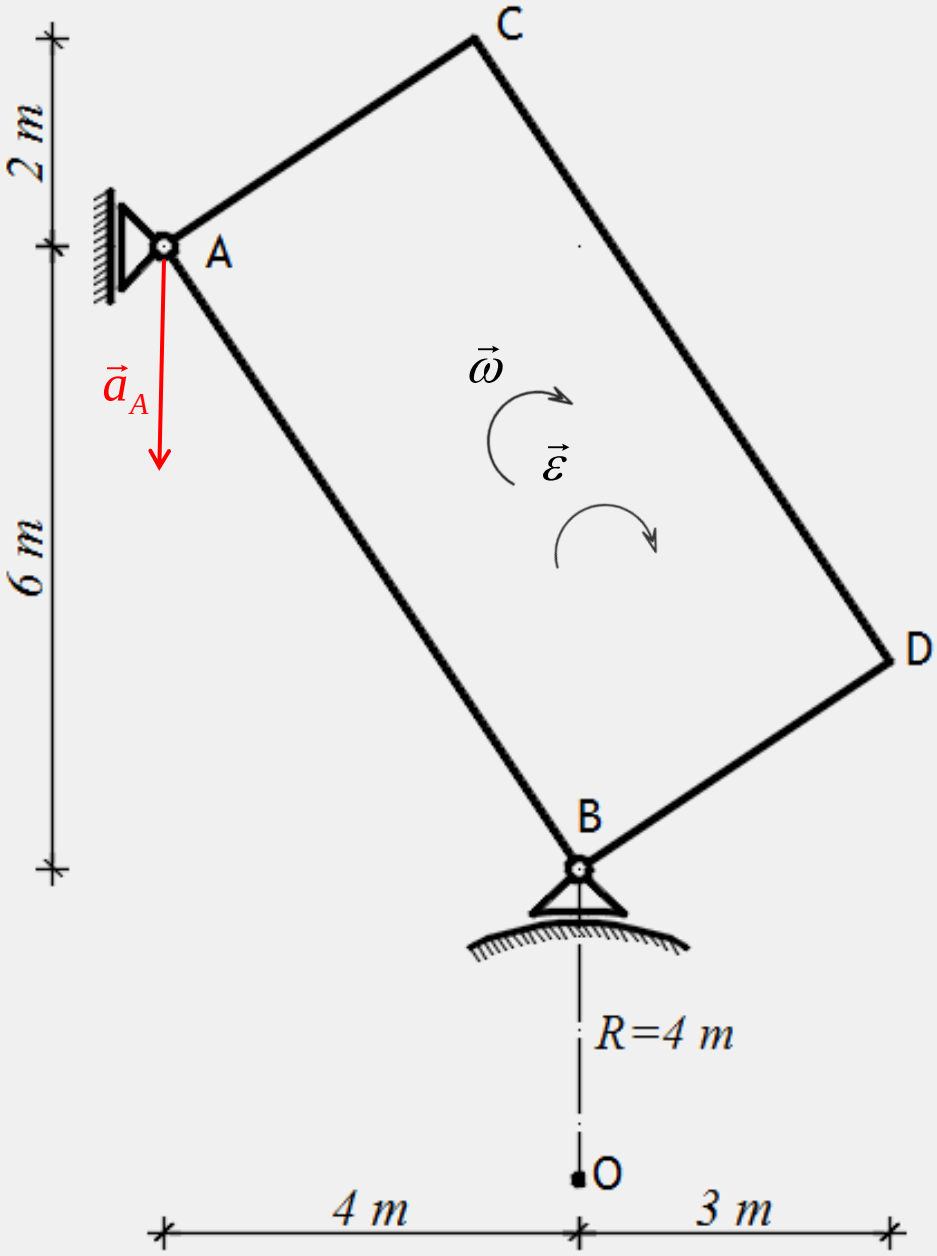
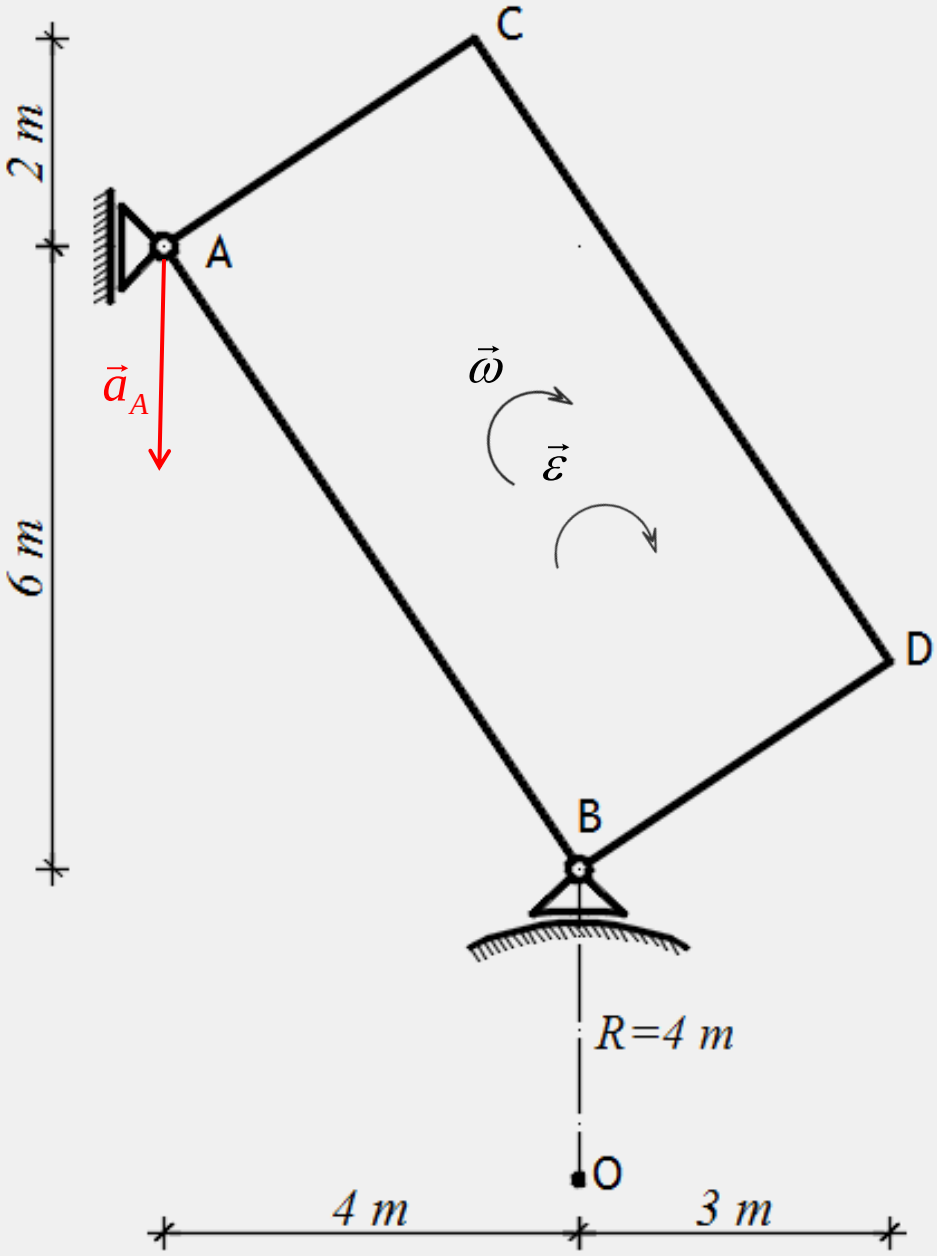
BRZINE



BRZINE

Ubrzanje točke C

$$\vec{a}_C = \vec{a}_A + \vec{a}_{C/A}^{N} + \vec{a}_{C/A}^{T}$$



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Ubrzanje točke C

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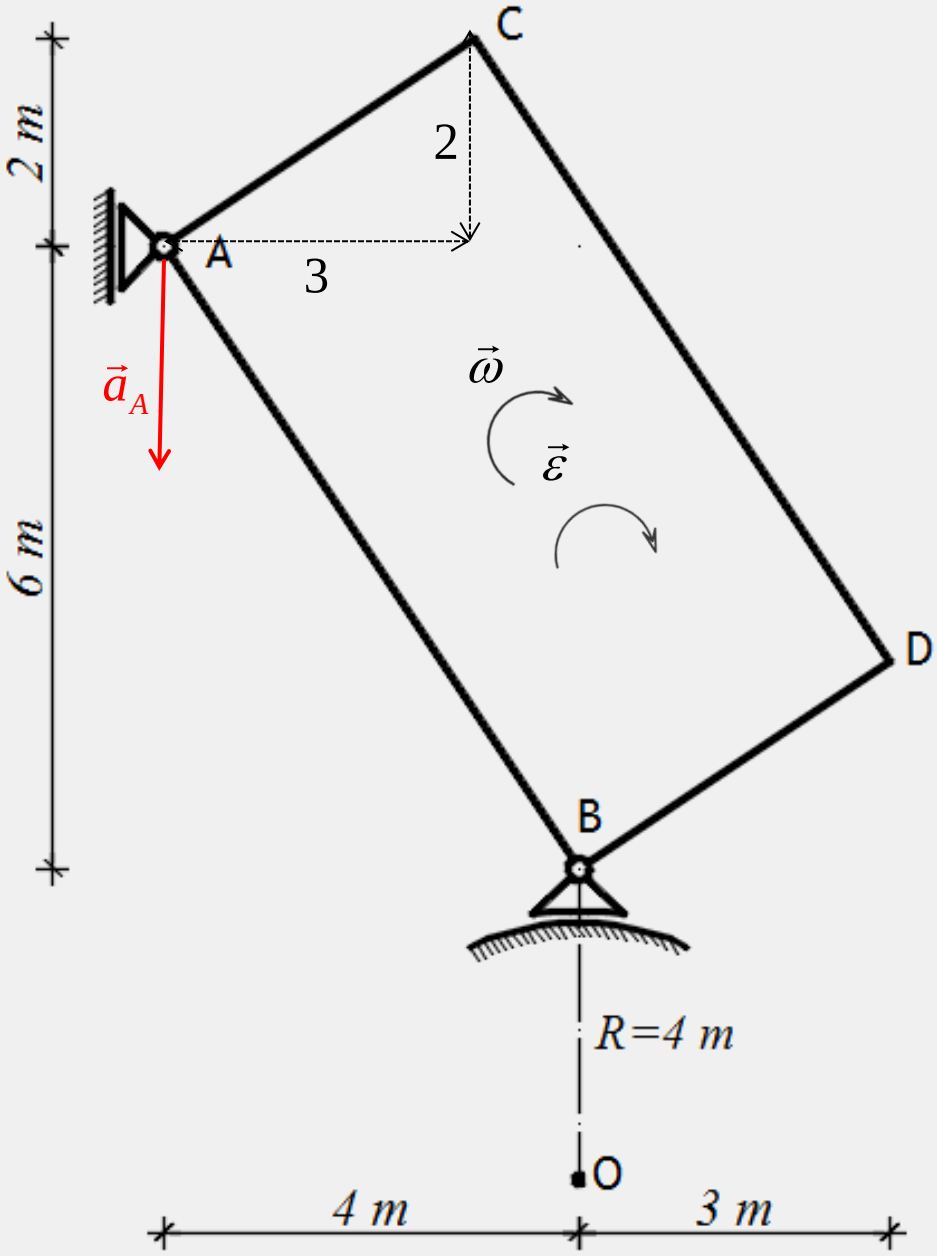

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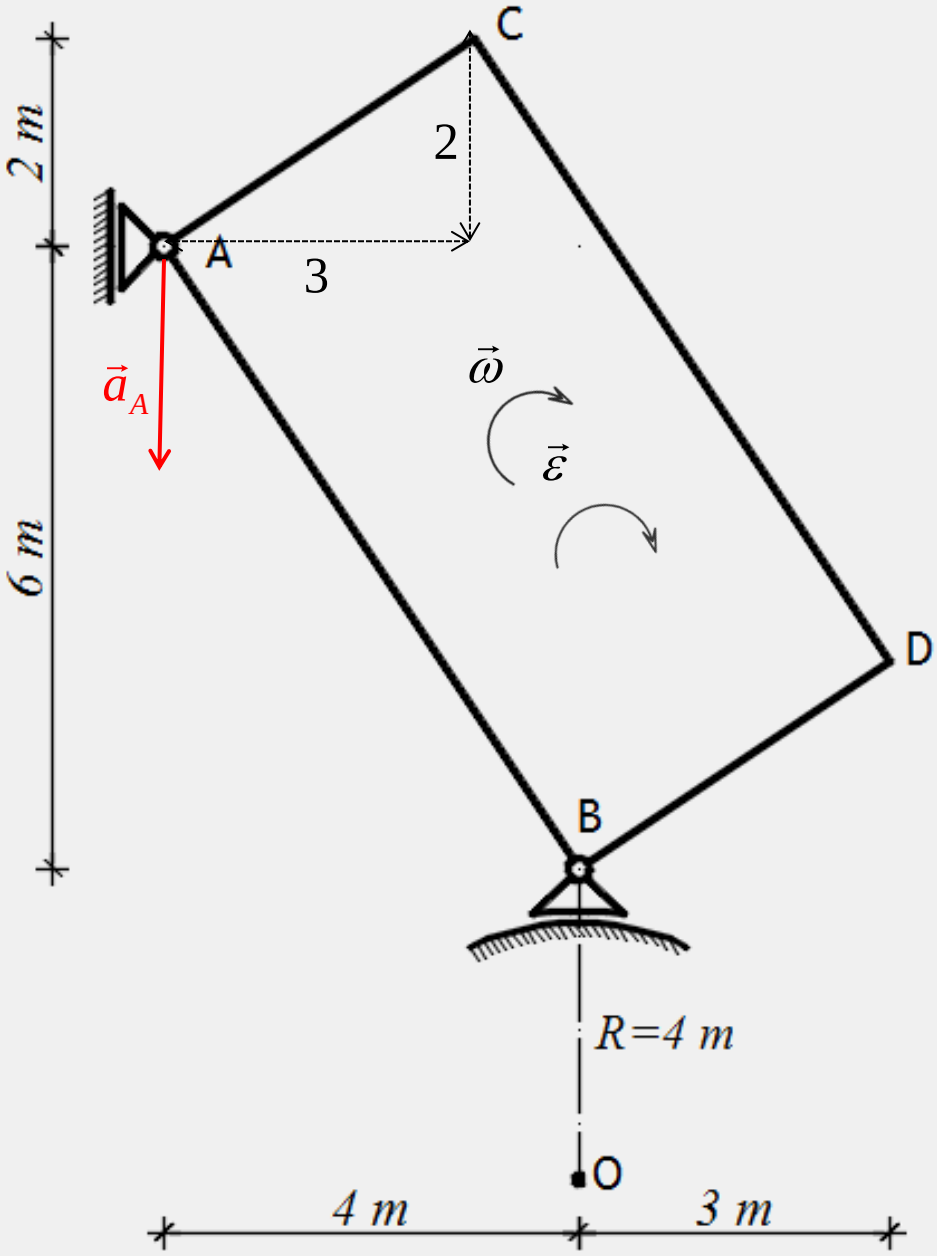

Ubrzanje točke C

$$\vec{a}_C = \vec{a}_A + \vec{a}^N_{C/A} + \vec{a}^T_{C/A}$$

$$\vec{a}_C = -7\,\vec{j}$$

BRZINE

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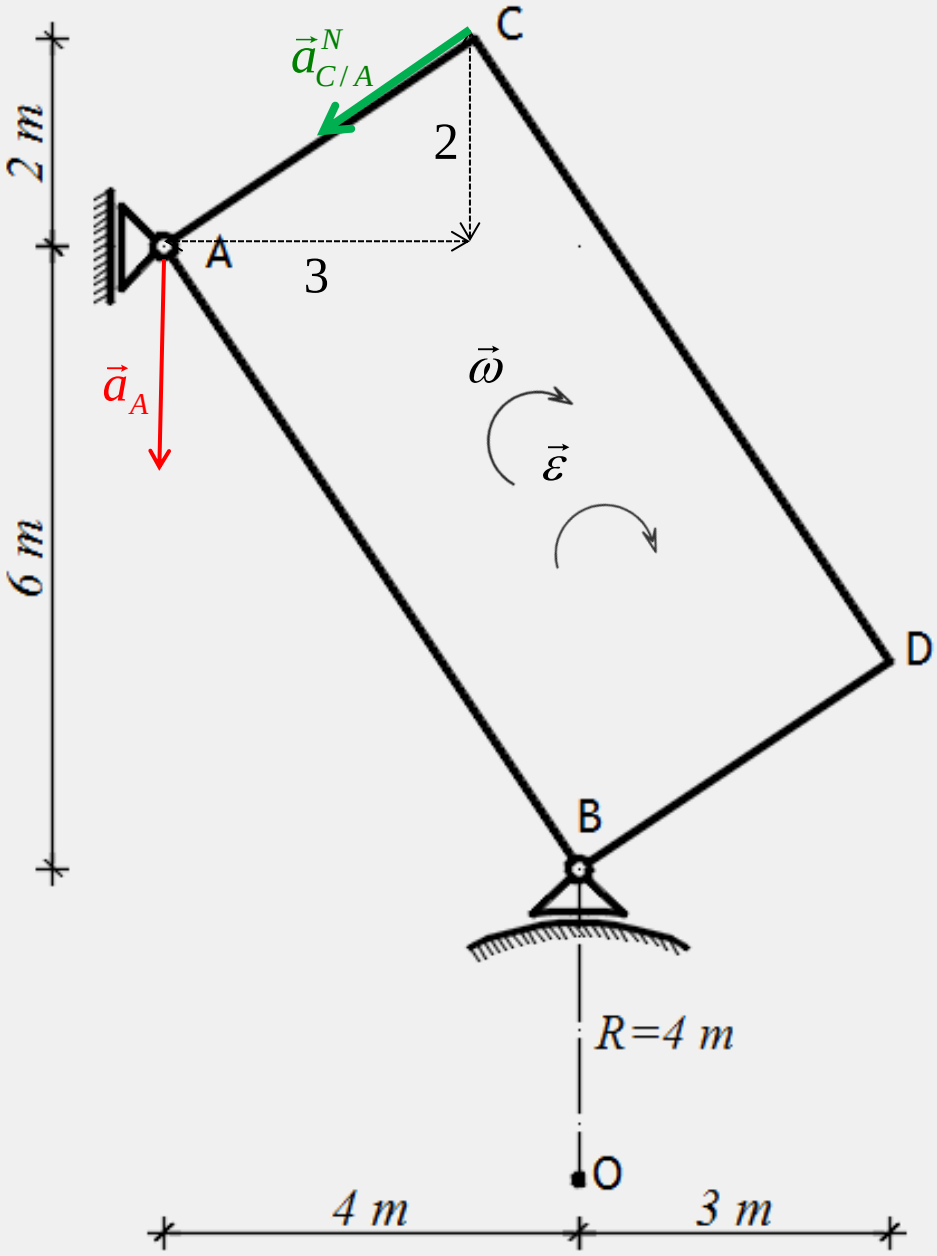
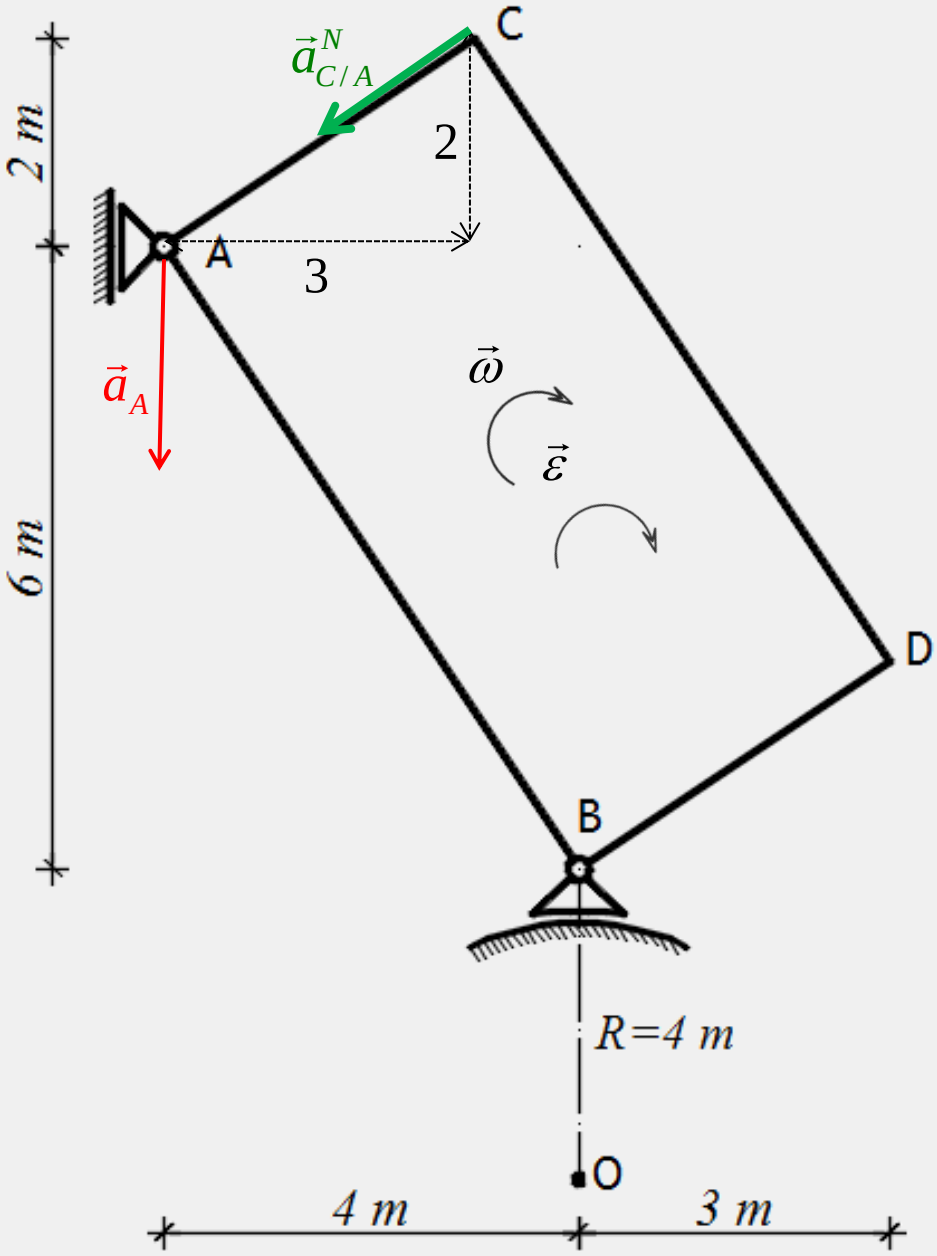


BRZINE

Ubrzanje točke C

$$\vec{a}_C = \vec{a}_A + \vec{a}^N_{C/A} + \vec{a}^T_{C/A}$$

$$\vec{a}_C = -7\vec{j} - 3\omega^2\vec{i} - 2\omega^2\vec{j}$$



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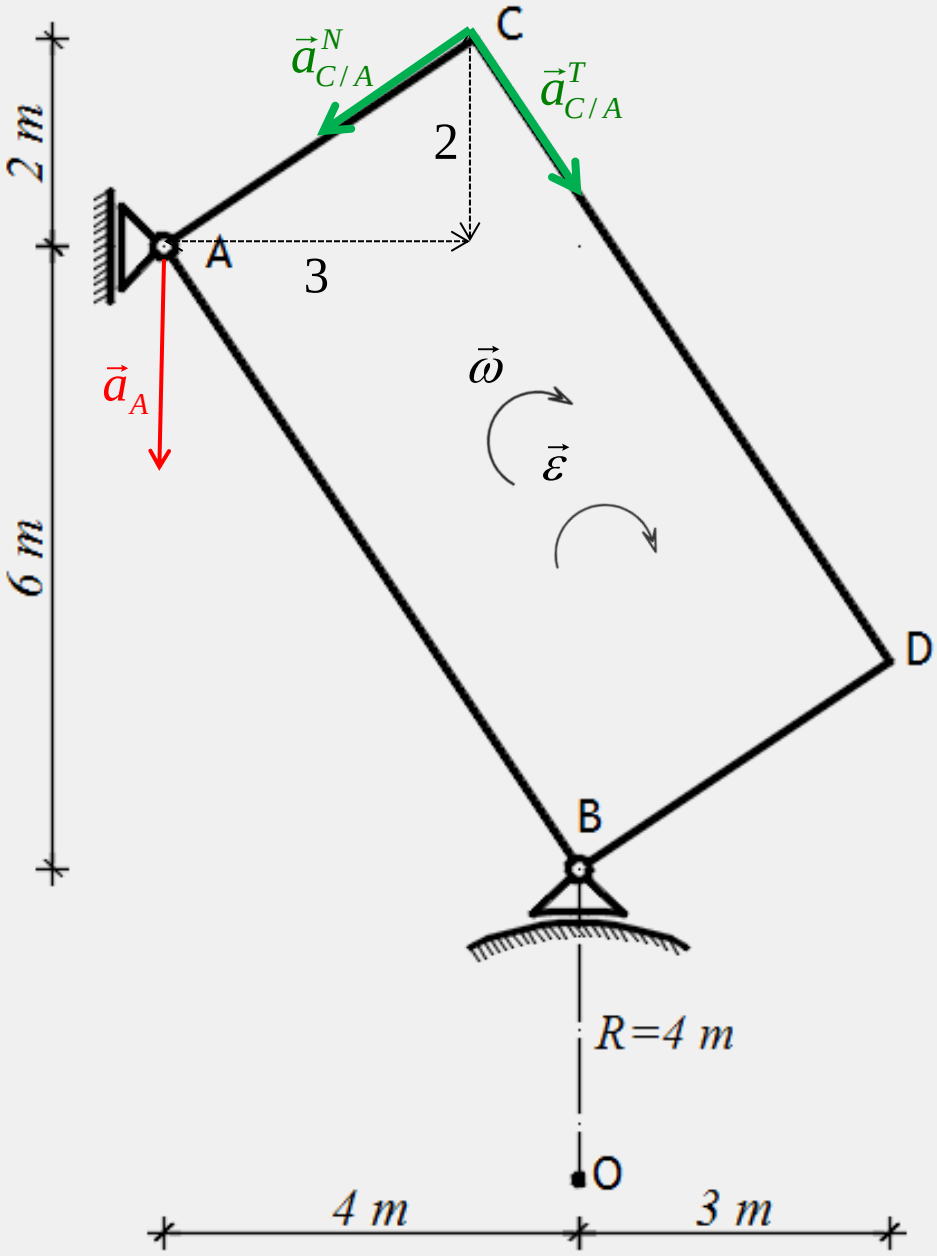

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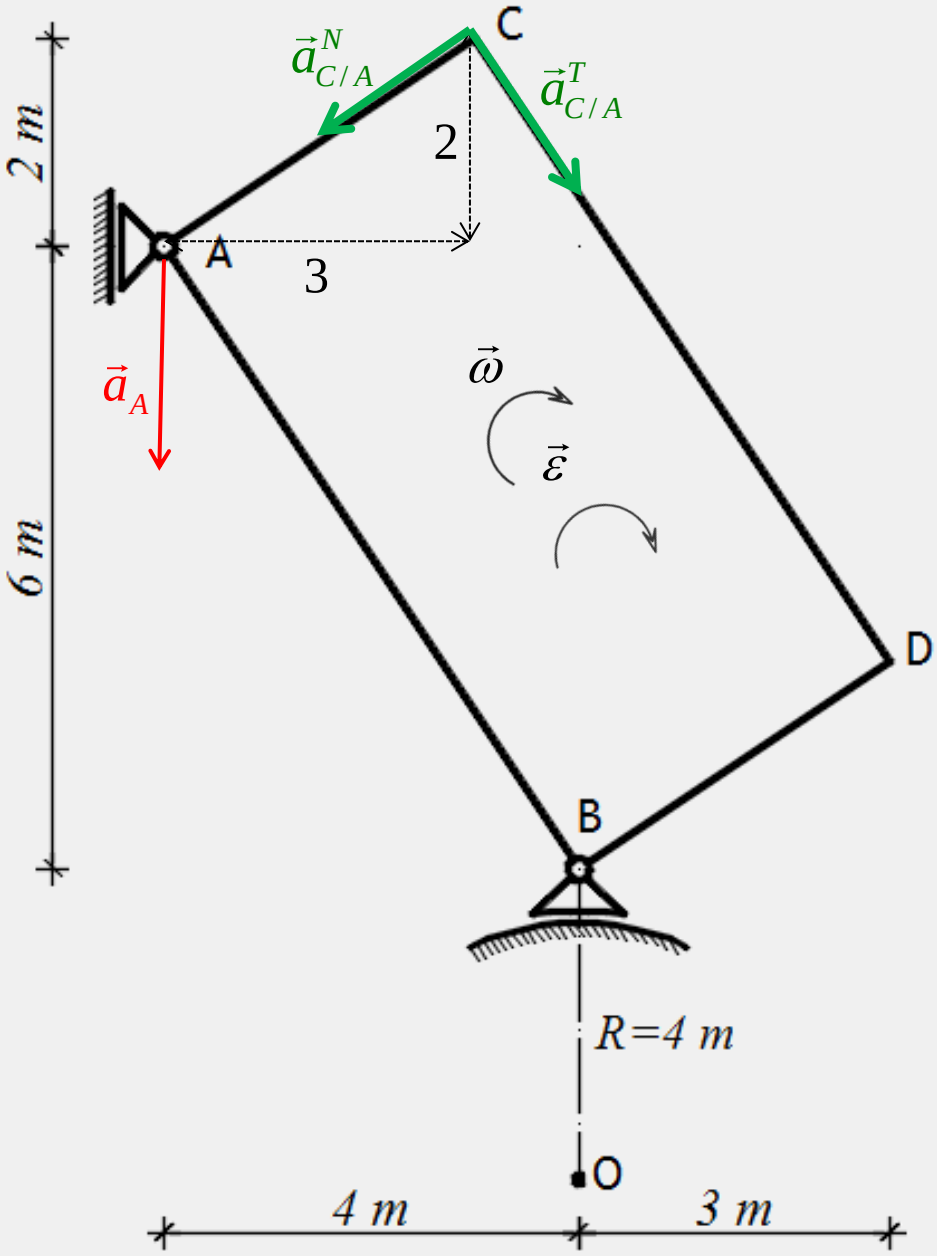

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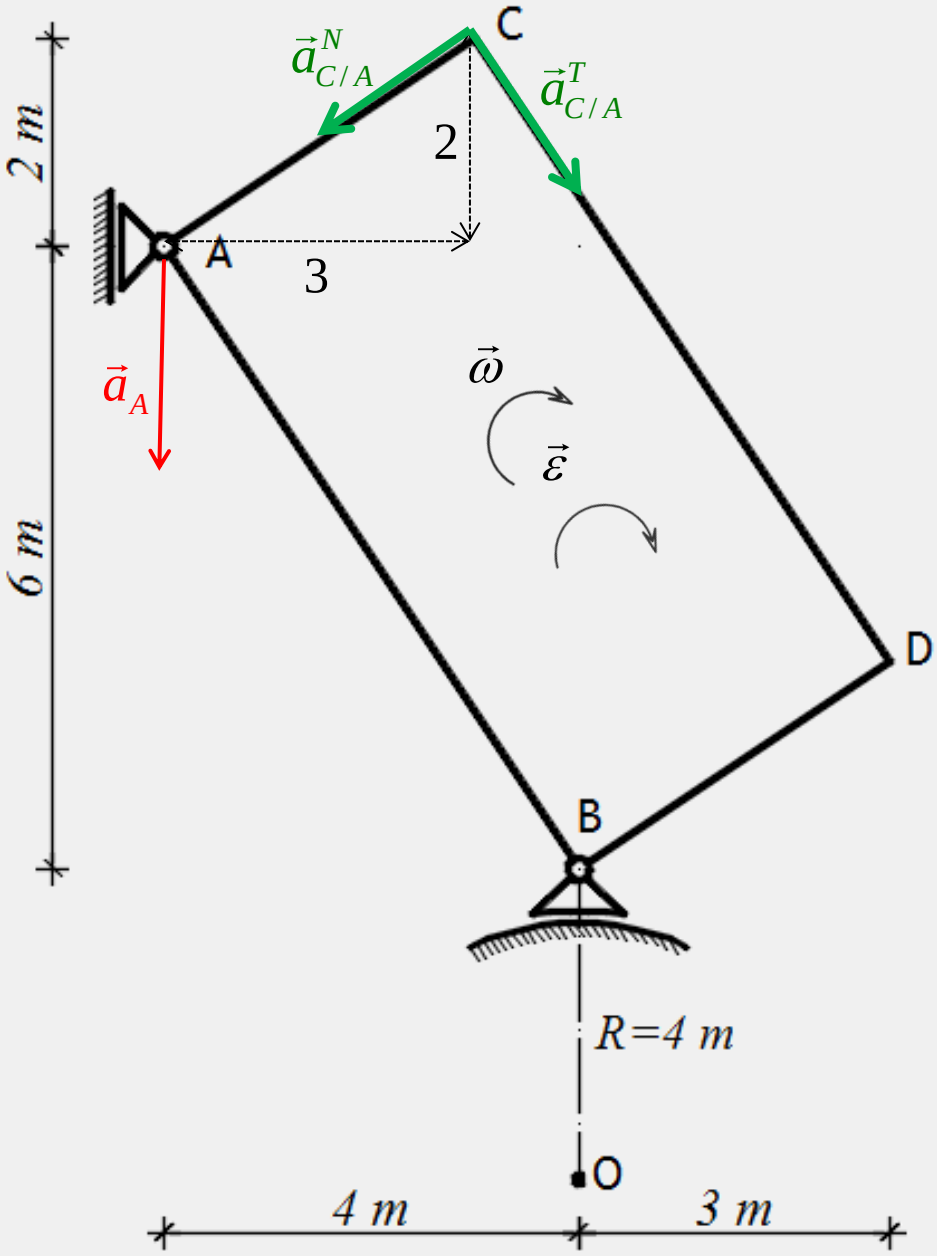
Ubrzanje točke C



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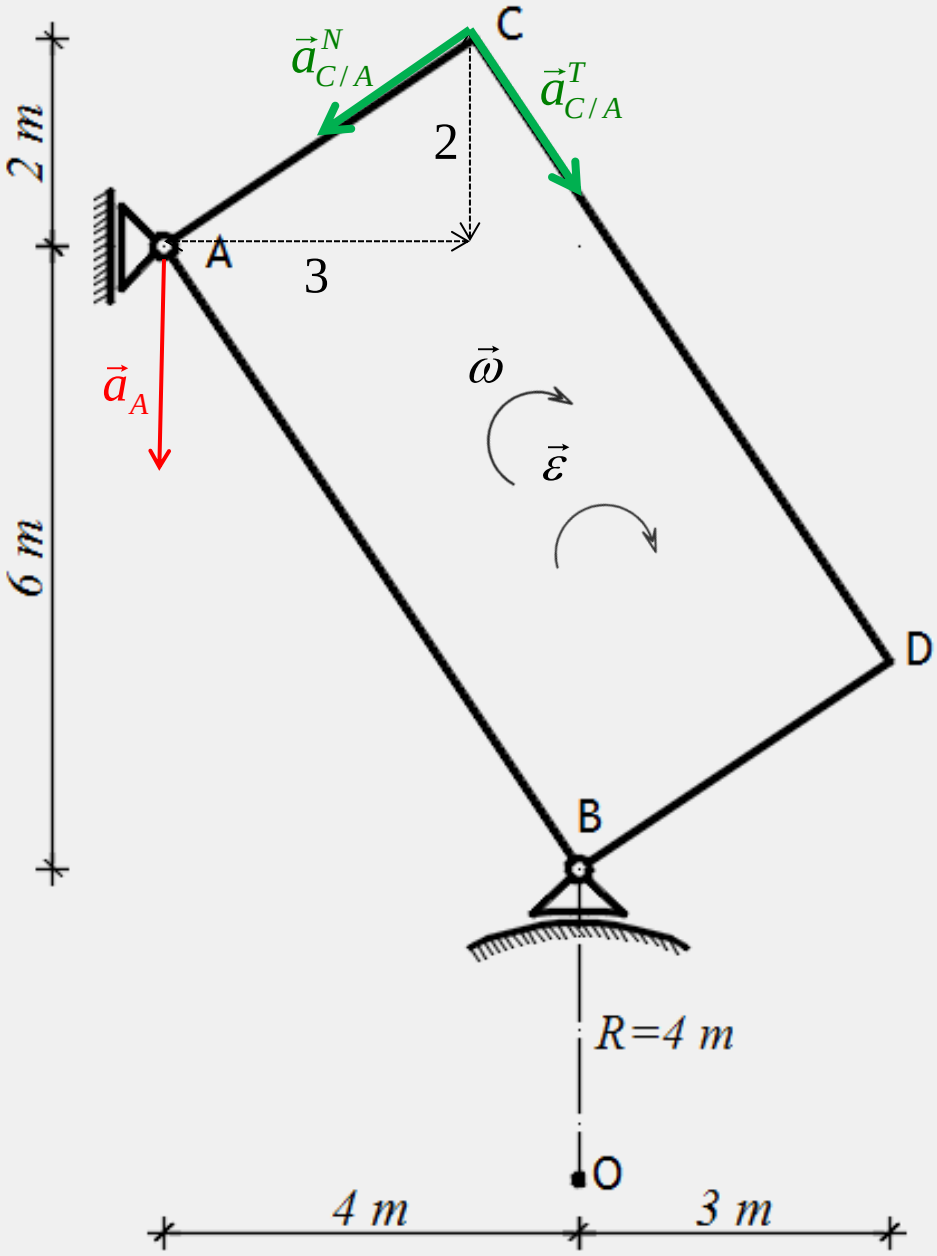
$$\vec{a}_C = \vec{i} - 15\vec{j}$$

BRZINE

Ubrzanje točke C



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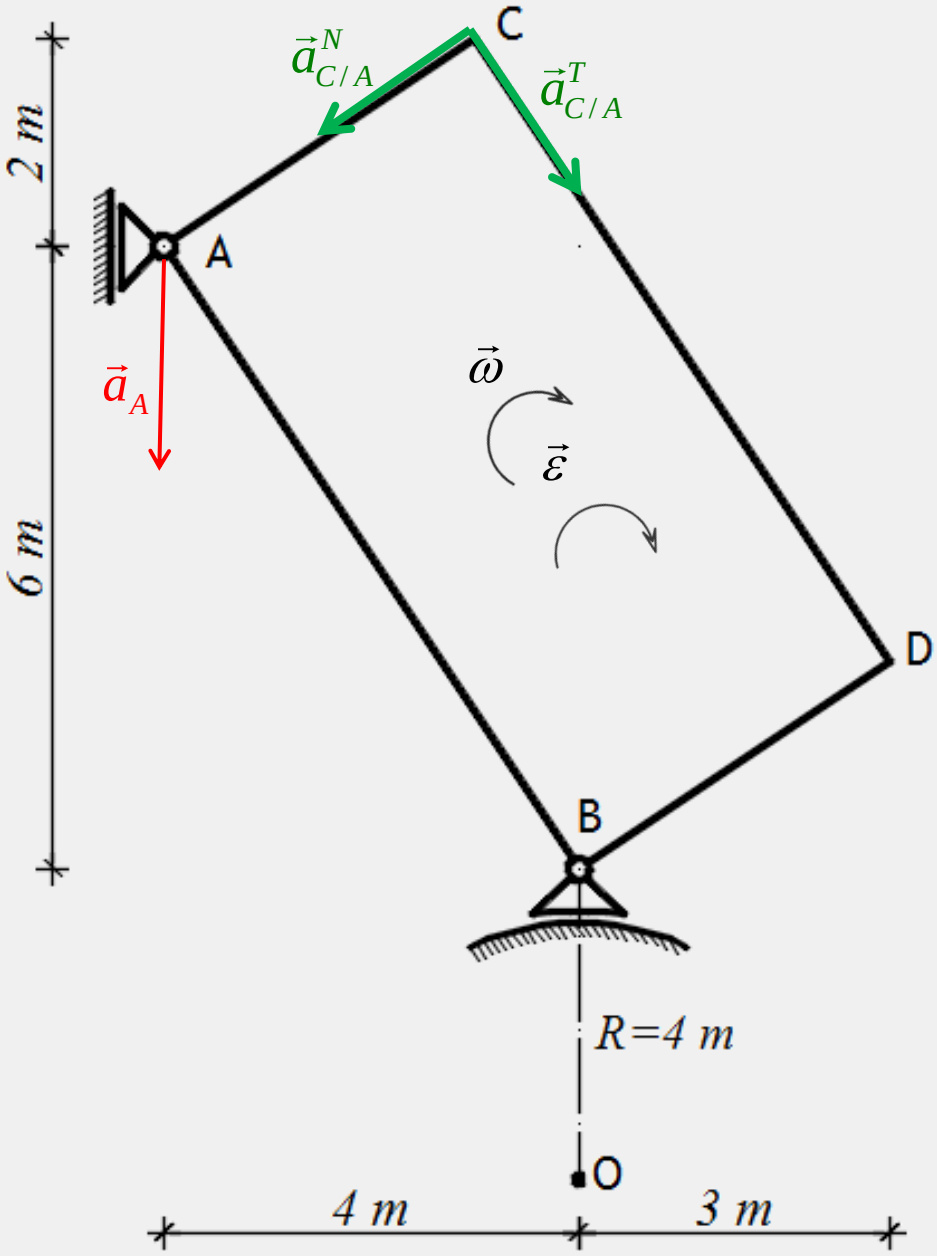
$$a_C = \sqrt{1^2 + 15^2} = 15{,}03\ m/s^2$$

BRZINE

Ubrzanje točke C



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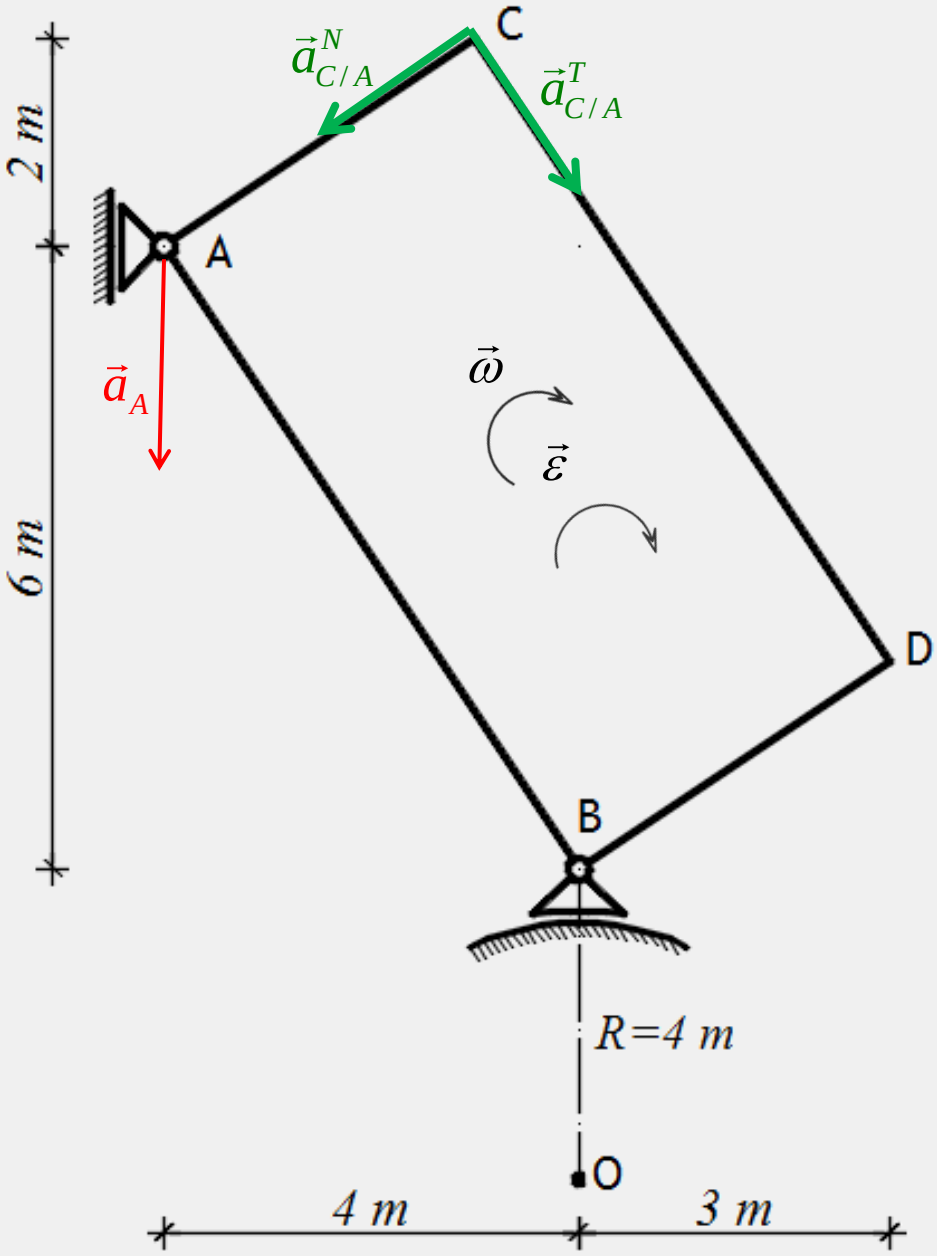

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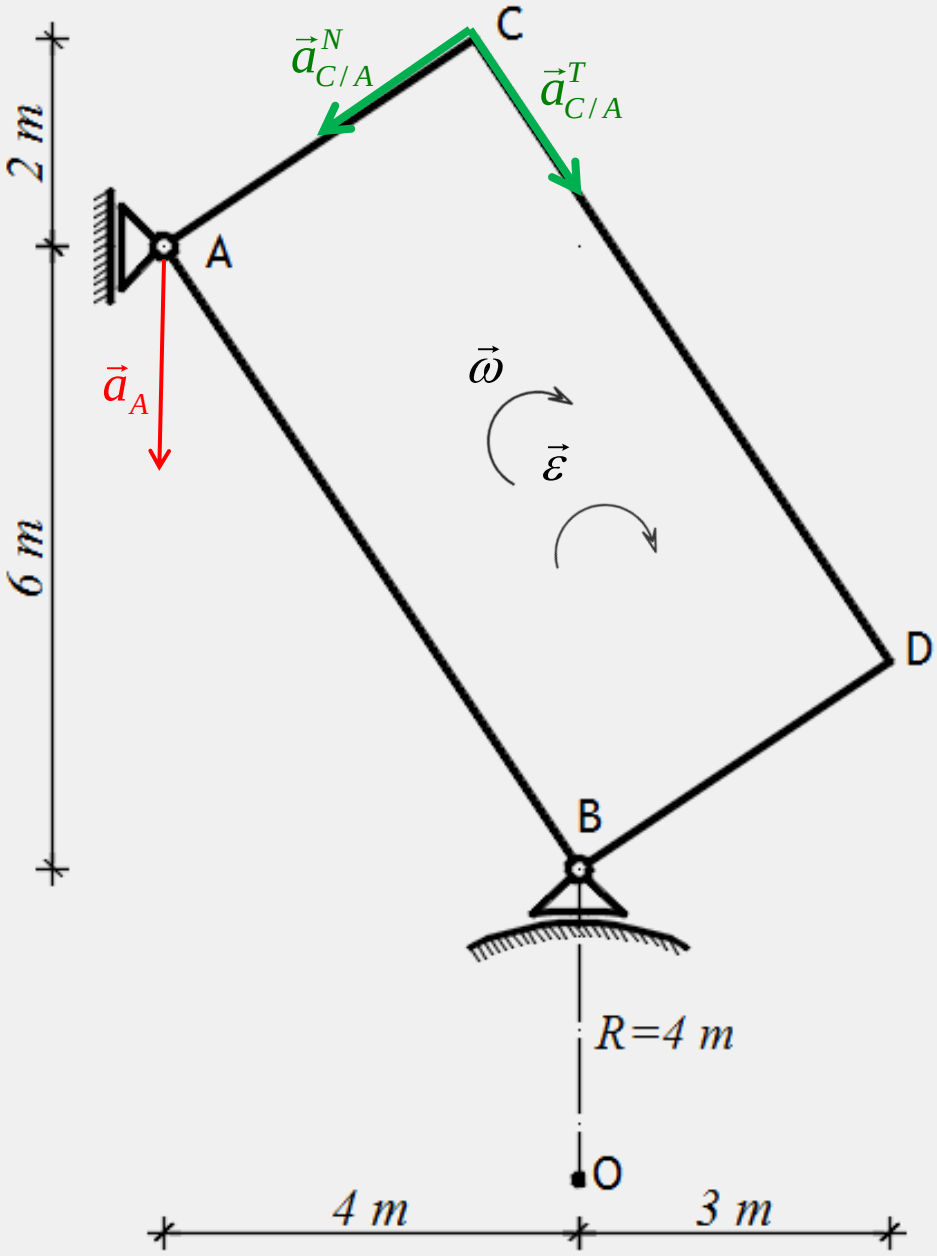
$$a_C = \sqrt{1^2 + 15^2} = 15{,}03\ m/s^2$$

Ubrzanje točke D

$$\vec{a}_D = \vec{a}_A + \vec{a}^N_{D/A} + \vec{a}^T_{D/A}$$

BRZINE



Ubrzanje točke C

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Ubrzanje točke D

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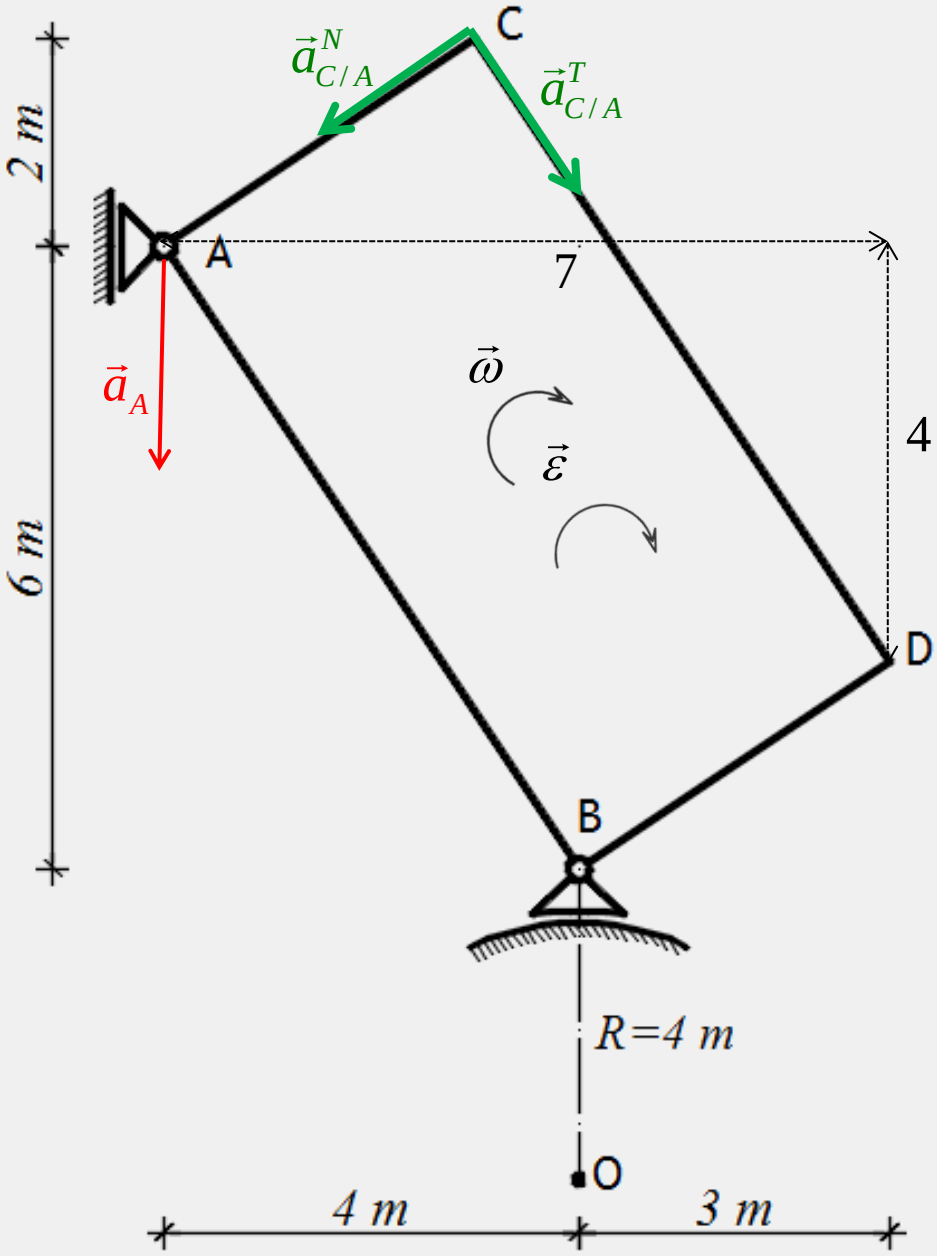
BRZINE



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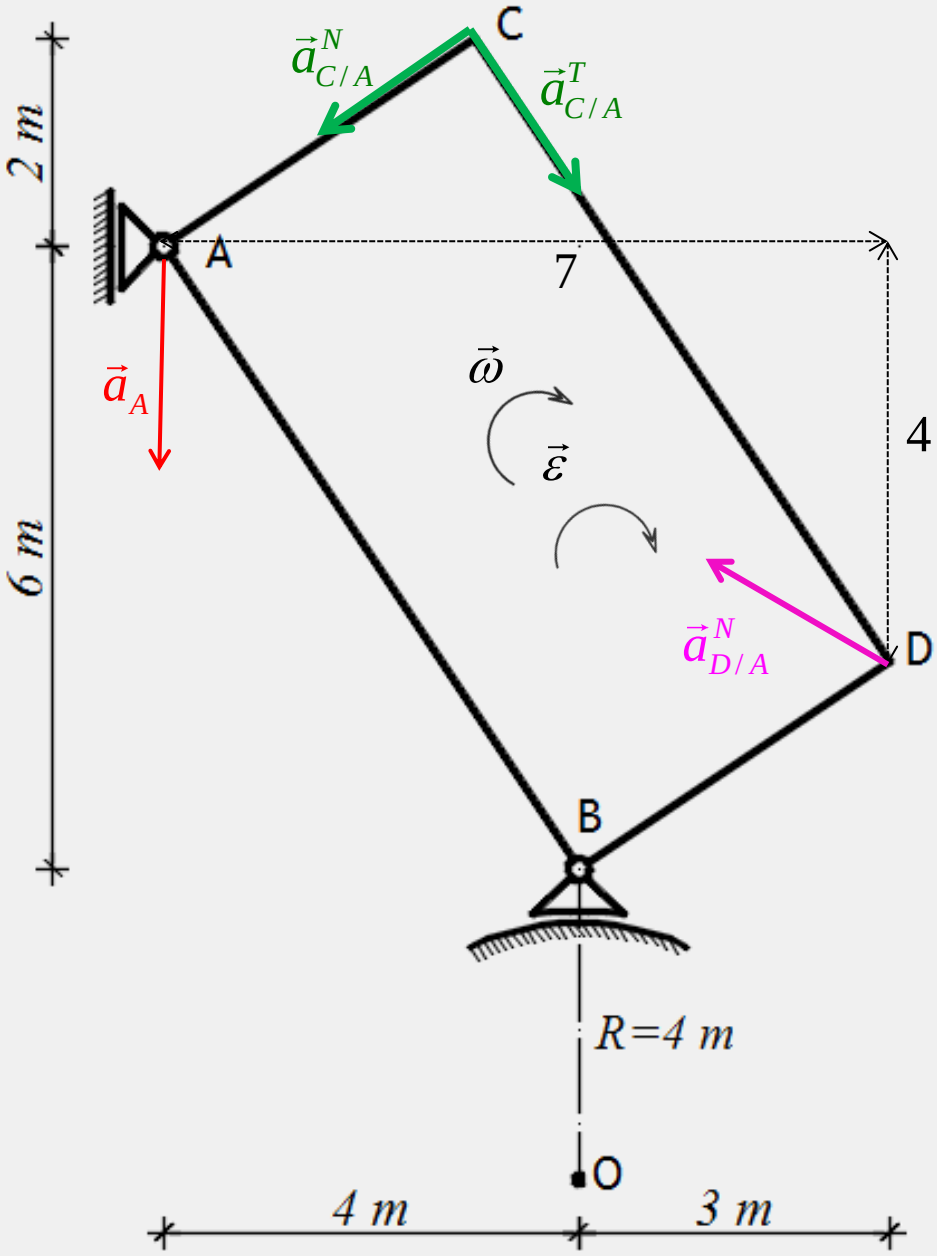

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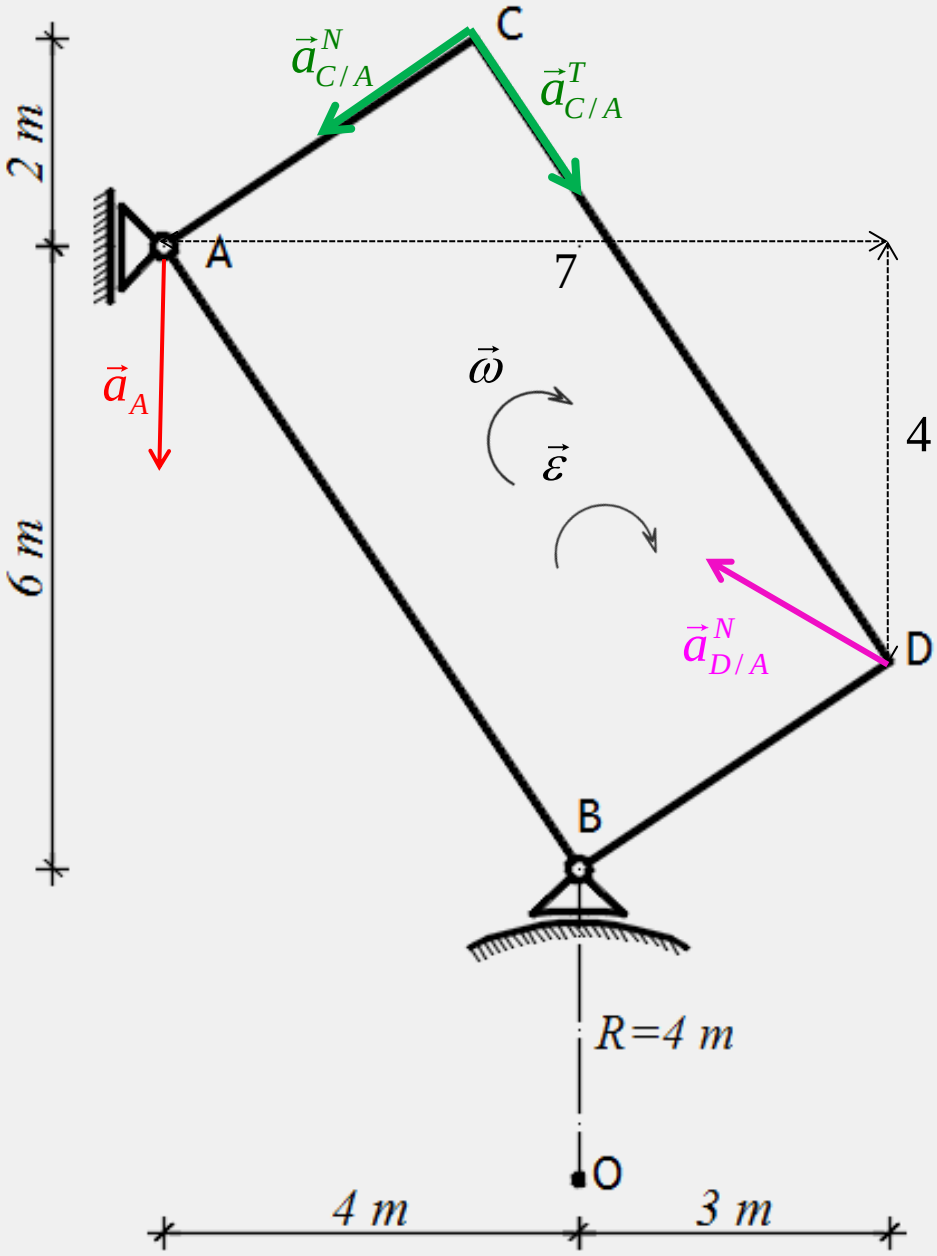

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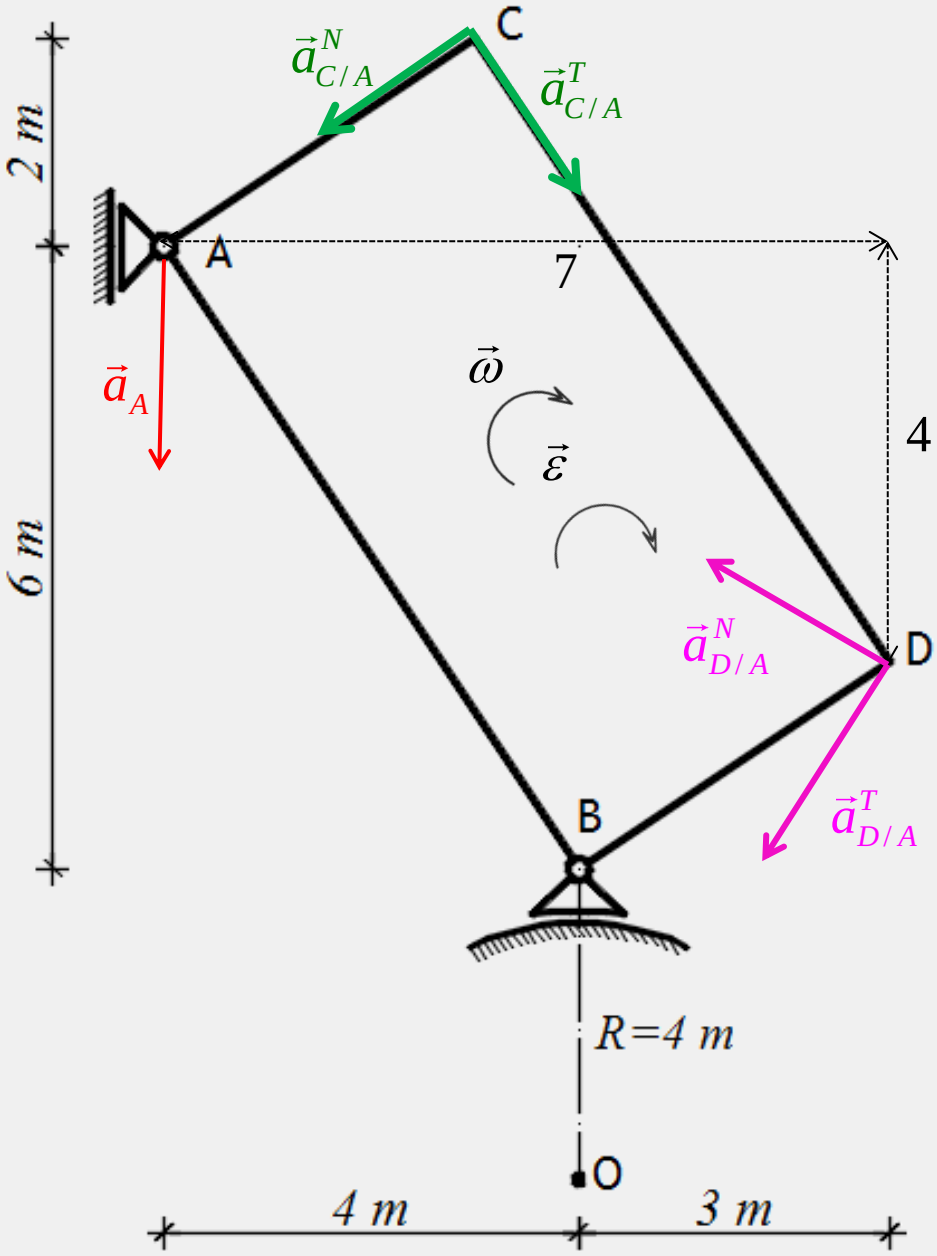
BRZINE



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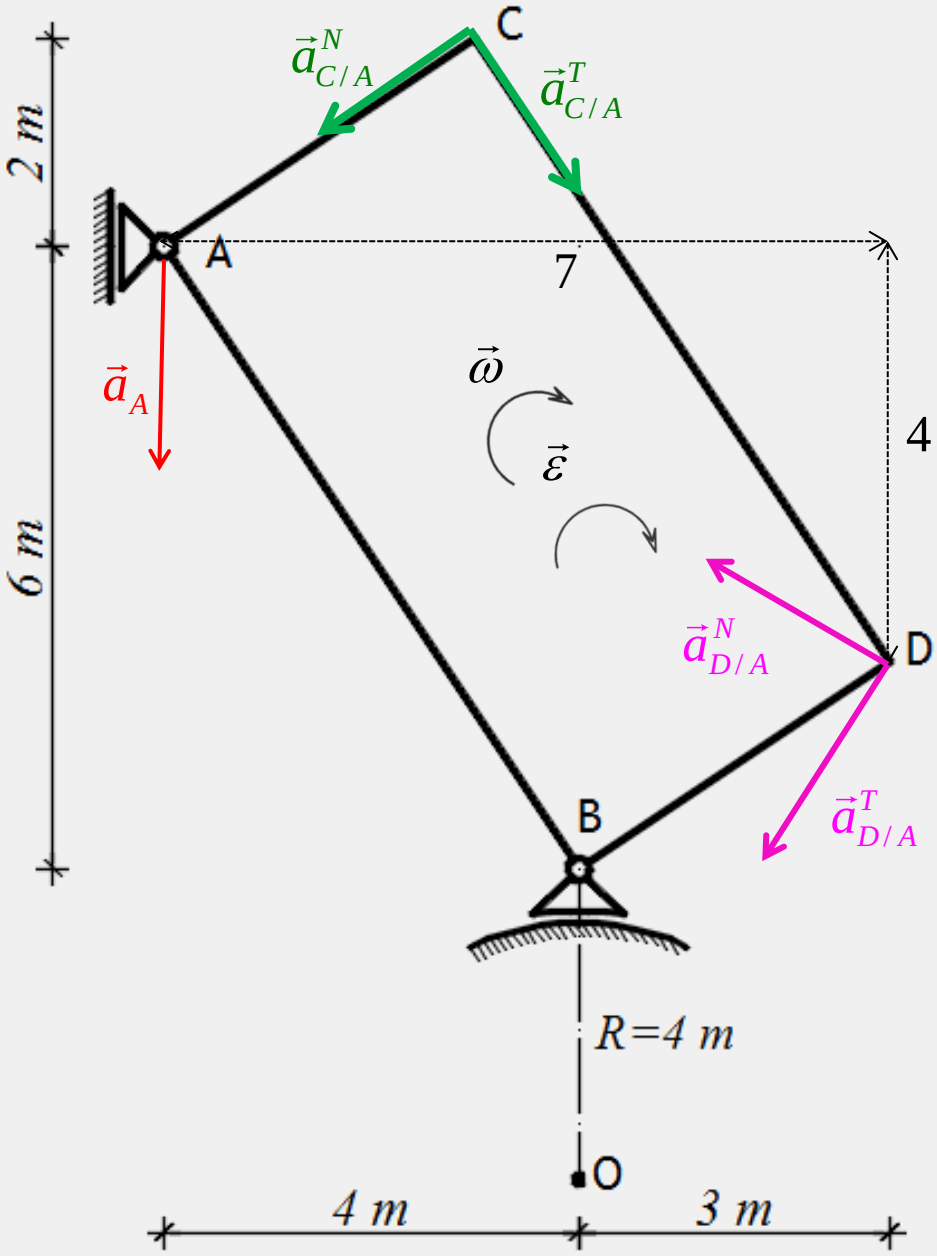


Ubrzanje točke C

$$\vec{a}_C = \vec{a}_A + \vec{a}^N_{C/A} + \vec{a}^T_{C/A}$$

$$\vec{a}_C = -7\vec{j} - 3\omega^2\vec{i} - 2\omega^2\vec{j} + 2\varepsilon\vec{i} - 3\varepsilon\vec{j}$$

$$\vec{a}_C = \vec{i} - 15\vec{j}$$

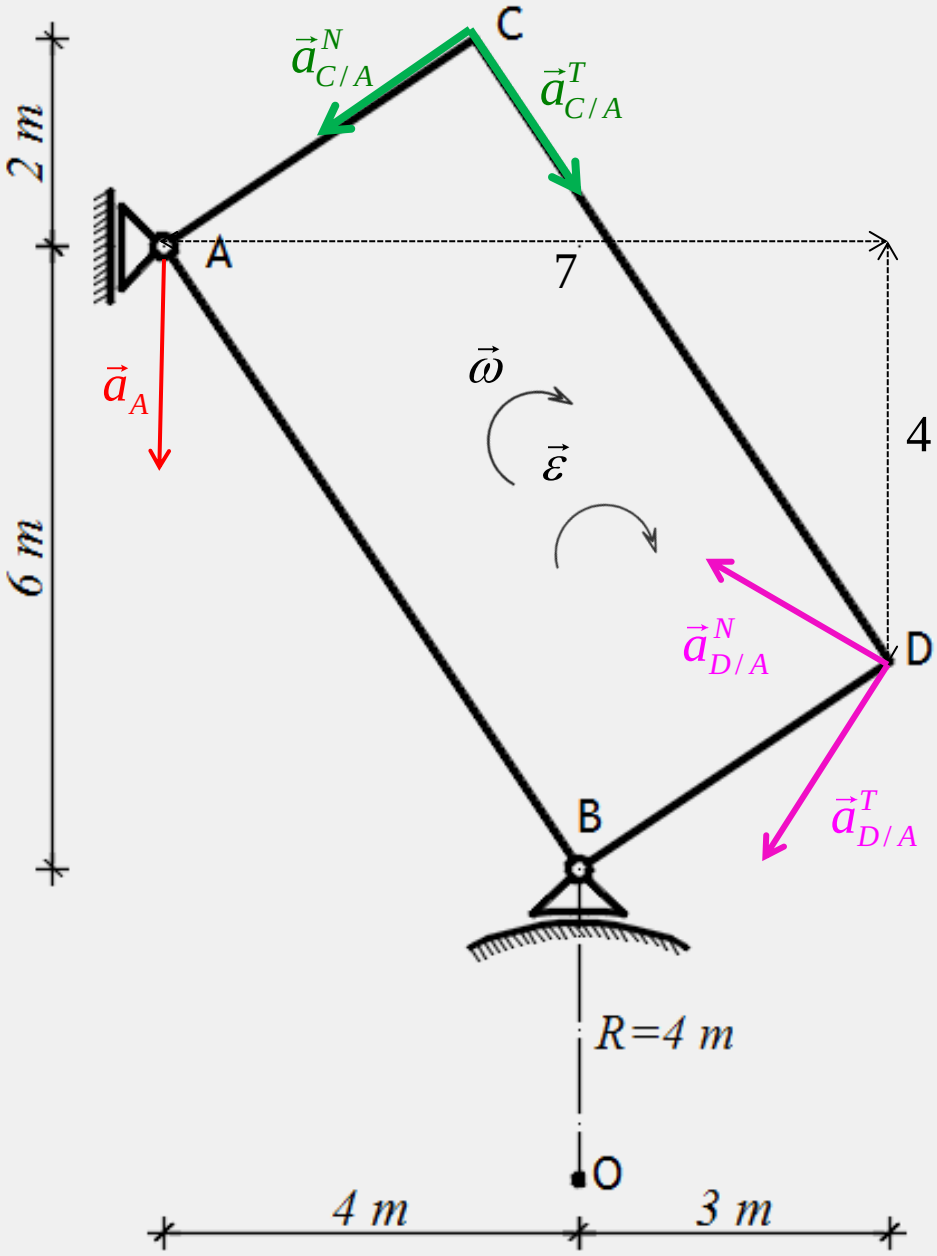
$$a_C = \sqrt{1^2 + 15^2} = 15{,}03\ m/s^2$$

Ubrzanje točke D

$$\vec{a}_D = \vec{a}_A + \vec{a}^N_{D/A} + \vec{a}^T_{D/A}$$

$$\vec{a}_D = -7\vec{j} - 7\omega^2\vec{i} + 4\omega^2\vec{j} - 4\varepsilon\vec{i} - 7\varepsilon\vec{j}$$

BRZINE



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$$a_C = \sqrt{1^2 + 15^2} = 15{,}03\ m/s^2$$

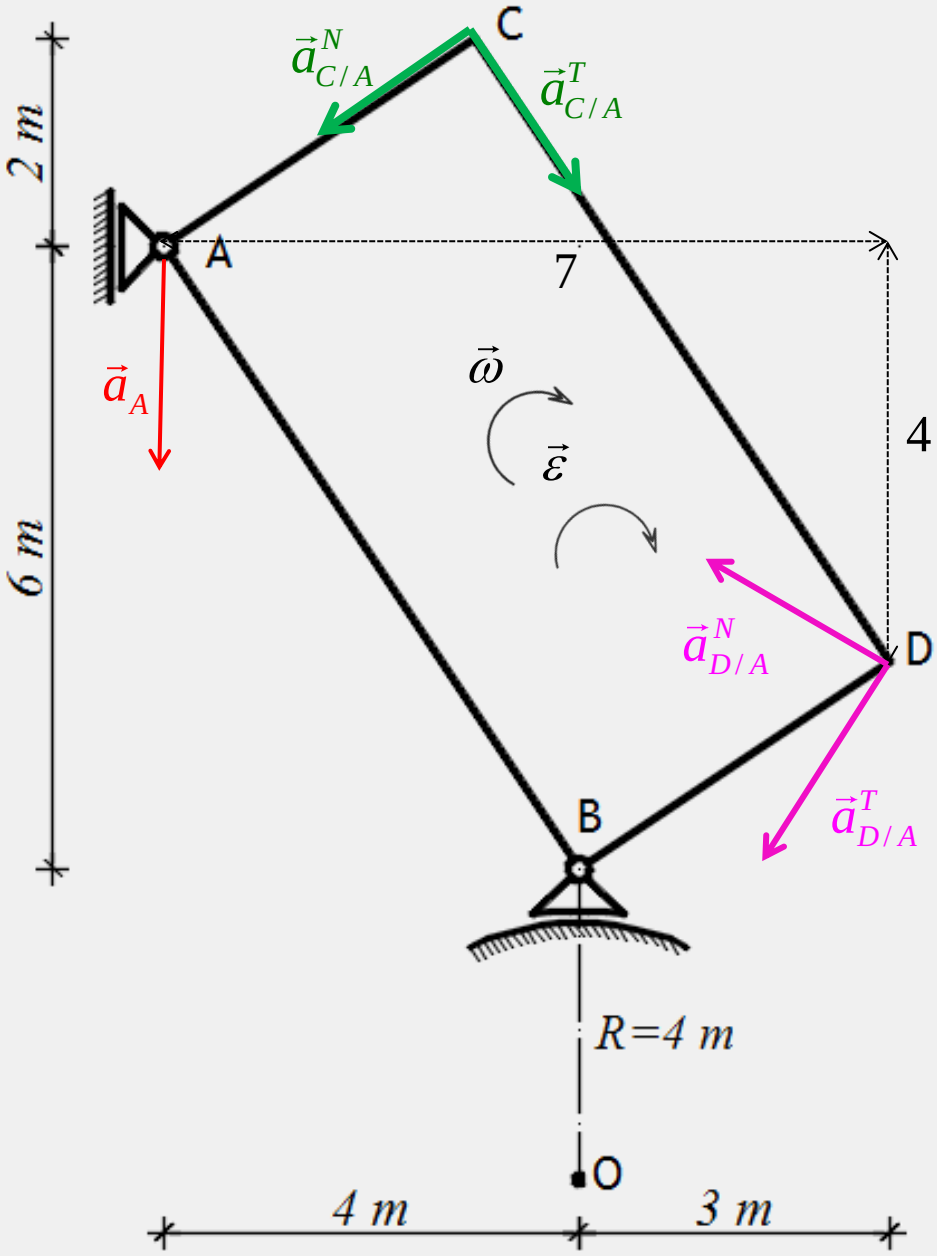
Ubrzanje točke D

$$\vec{a}_D = \vec{a}_A + \vec{a}^N_{D/A} + \vec{a}^T_{D/A}$$

$$\vec{a}_D = -7\vec{j} - 7\omega^2\vec{i} + 4\omega^2\vec{j} - 4\varepsilon\vec{i} - 7\varepsilon\vec{j}$$

$$\vec{a}_D = -15\vec{i} - 17\vec{j}$$

BRZINE



Ubrzanje točke C

$$\vec{a}_C = \vec{a}_A + \vec{a}^N_{C/A} + \vec{a}^T_{C/A}$$

$$\vec{a}_C = -7\vec{j} - 3\omega^2\vec{i} - 2\omega^2\vec{j} + 2\varepsilon\vec{i} - 3\varepsilon\vec{j}$$

$$\vec{a}_C = \vec{i} - 15\vec{j}$$

$$a_C = \sqrt{1^2 + 15^2} = 15,03\ m/s^2$$

Ubrzanje točke D

$$\vec{a}_D = \vec{a}_A + \vec{a}^N_{D/A} + \vec{a}^T_{D/A}$$

$$\vec{a}_D = -7\vec{j} - 7\omega^2\vec{i} + 4\omega^2\vec{j} - 4\varepsilon\vec{i} - 7\varepsilon\vec{j}$$

$$\vec{a}_D = -15\vec{i} - 17\vec{j}$$

$$a_D = \sqrt{15^2 + 17^2} = 22,67\ m/s^2$$