

Znáš ω_{21} a α_{21} , urči v_{61} a a_{61} , graficky

Rychlosti

1. A: $41 = 42 + 21$

$41 = 43 + 31 \Rightarrow 41 = 31$

0

$$\vec{v}_{41} = \vec{v}_{31} = \vec{v}_{42} + \vec{v}_{21}$$

2. $\omega_{42} = \frac{v_{42}^A}{|AO_{42}|}$

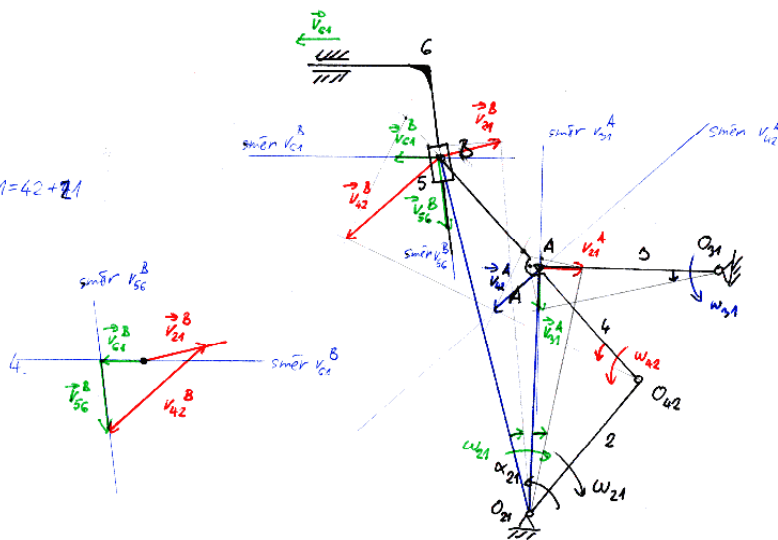
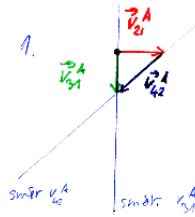
3. $v_{42}^B = \omega_{42} |BO_{42}|$

4. B: $51 = 56 + 61$

$51 = 54 + 42 + 21 \Rightarrow 51 = 42 + 21$

0

$$\vec{v}_{51}^B = \vec{v}_{56}^B + \vec{v}_{61}^B = \vec{v}_{42}^B + \vec{v}_{21}^B$$



Zrychlení

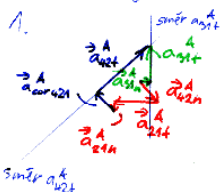
1. A: $41 = 42 + 21$

$41 = 43 + 31 \Rightarrow 41 = 31$

0

$$\vec{a}_{41} = \vec{a}_{31} = \vec{a}_{42} + \vec{a}_{21} + \vec{a}_{cor421}$$

$\vec{a}_{cor421} = 2\vec{\omega}_{21} \times \vec{v}_{42}$



2. $\alpha_{42} = \frac{a_{42}^A}{|AO_{42}|}$

3. $a_{42}^B = \alpha_{42} |BO_{42}|$

4. B: $51 = 56 + 61$

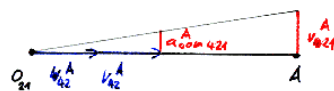
$51 = 54 + 42 + 21 \Rightarrow 51 = 42 + 21$

0

$$\vec{a}_{51}^B = \vec{a}_{56}^B + \vec{a}_{61}^B + \vec{a}_{cor561} = \vec{a}_{42}^B + \vec{a}_{21}^B + \vec{a}_{cor421}$$

$\vec{a}_{cor561} = 2\vec{\omega}_{61} \times \vec{v}_{56}$

$\vec{a}_{cor421} = 2\vec{\omega}_{21} \times \vec{v}_{42}$



4.

