

Vektora projekcijas uz koordinātu asīm

1. Uzdevums

Nosaki, kuras vektora $\vec{a}$ projekcijas 1 — 8 atbilst katram no zīmējumiem!

1 $\text{pr}_x \vec{a} = 3$

3 $\text{pr}_x \vec{a} = 4$

5 $\text{pr}_y \vec{a} = 3$

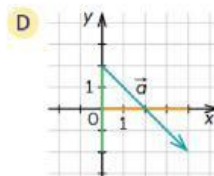
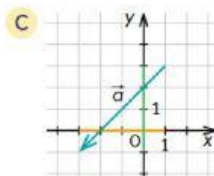
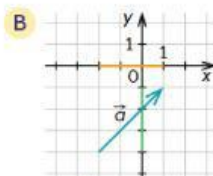
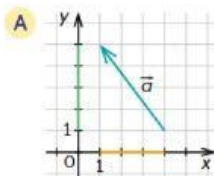
7 $\text{pr}_y \vec{a} = -3$

2 $\text{pr}_x \vec{a} = -3$

4 $\text{pr}_x \vec{a} = -4$

6 $\text{pr}_y \vec{a} = 4$

8 $\text{pr}_y \vec{a} = -4$



2. Uzdevums

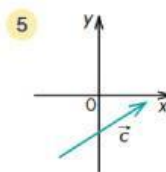
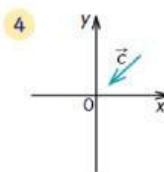
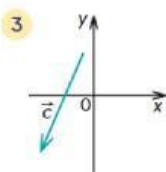
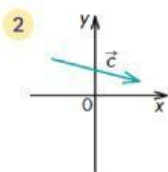
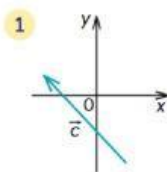
Nosaki, kuram zīmējumam vai zīmējumiem atbilst katrs apraksts!

A $\text{pr}_x \vec{c} > 0, \text{pr}_y \vec{c} > 0$

B $\text{pr}_x \vec{c} > 0, \text{pr}_y \vec{c} < 0$

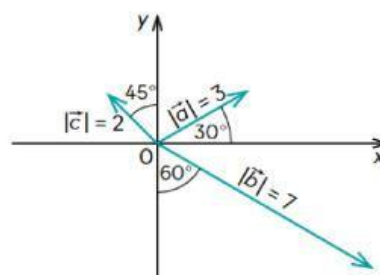
C $\text{pr}_x \vec{c} < 0, \text{pr}_y \vec{c} > 0$

D $\text{pr}_x \vec{c} < 0, \text{pr}_y \vec{c} < 0$



3. Uzdevums

Aprēķini zīmējumā attēloto vektoru projekcijas uz x un y asīm!



$$\text{pr}_x \vec{c} = \sqrt{\quad}$$

$$\text{pr}_x \vec{a} = \sqrt{\quad}$$

$$\text{pr}_x \vec{b} = \sqrt{\quad}$$

$$\text{pr}_y \vec{c} = \sqrt{\quad}$$

$$\text{pr}_y \vec{a} = \quad$$

$$\text{pr}_y \vec{b} = \quad$$