

**Zadatak 6.** Dani su vektori  $\vec{a} = 2\vec{i} - \vec{j}$  i  $\vec{b} = 3\vec{i} + 2\vec{j}$ . Odredi vektor  $\vec{c}$  tako da je  $\vec{a} \cdot \vec{c} = 7$  i  $\vec{b} \cdot \vec{c} = 7$ .

**Rješenje.**

$$\vec{a} \cdot \vec{c} = a_x c_x + a_y c_y = 7$$

$$\vec{b} \cdot \vec{c} = b_x c_x + b_y c_y = 7$$

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$$2c_x - c_y = 7 / \cdot 2$$

$$3c_x + 2c_y = 7$$

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$$4c_x - 2c_y = 14$$

$$3c_x + 2c_y = 7$$

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$$7c_x = 21 \implies c_x = 3$$

$$2 \cdot 30c_y = 7 \implies c_y = -1$$

$$\vec{c} = 3\vec{i} - \vec{j}$$