Bagana 1

b)
$$x \cdot y = 7 \cdot -3 + -9 \cdot 1 + 0 \cdot 11 + 1 \cdot 2 = -21 - 9 + 2 = -23$$

$$\|\bar{a}\| = \sqrt{16 + 4 + 16} = 6$$

 $\|\bar{b}\| = \sqrt{144 + 9 + 16} = 13$

$$\cos(a6) = \frac{12.4 + 2.3 + 4.4}{6.13} = \frac{48 + 6 + 16}{78} = \frac{70}{78} = \frac{35}{39}$$

a)
$$1/2 - 1/2 0$$

$$0 = \frac{1}{12} \cdot \frac{1}{12} \cdot 1 = 1 \neq 0 \quad \text{odpayor} \quad \text{down}$$

$$0 = \frac{1}{12} \cdot \frac{1}{12} \cdot 1 = 1 \neq 0 \quad \text{odpayor} \quad \text{down}$$