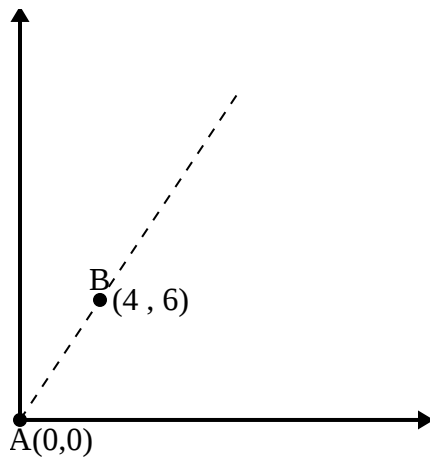




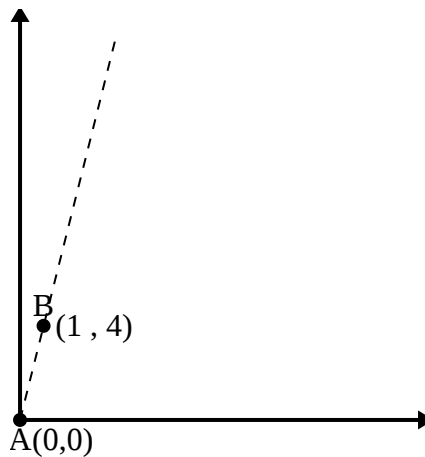
Use the law of Cosines to find the point B's angle relative to point A.

Answers

1)



2)



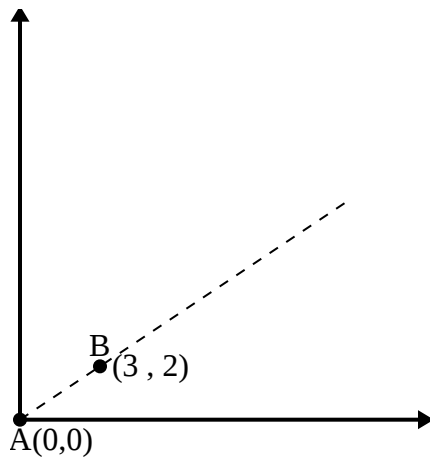
1. _____

2. _____

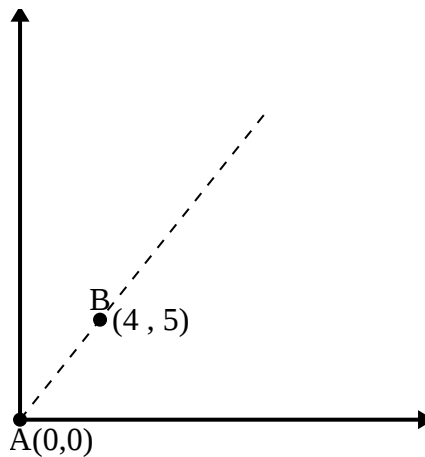
3. _____

4. _____

3)

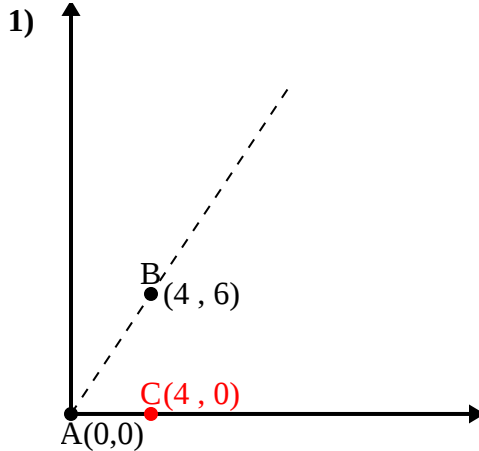


4)





Use the law of Cosines to find the point B's angle relative to point A.

Answers

$$\overline{AB} \text{ length} = 7.21$$

$$\overline{AC} \text{ length} = 4$$

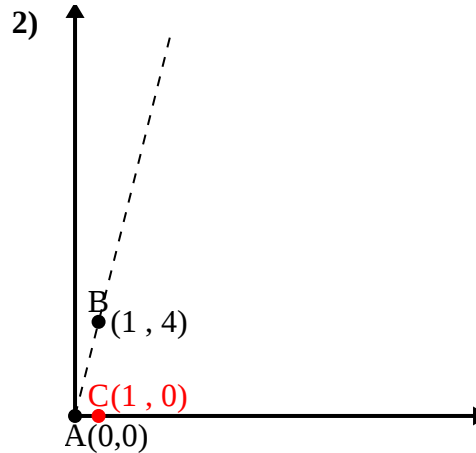
$$\overline{BC} \text{ length} = 6$$

$$(52 + 16 + 36) \div (2 \times 7.21 \times 4)$$

$$0.55$$

$$\cos^{-1}(0.55)$$

$$56.31^\circ$$



$$\overline{AB} \text{ length} = 4.12$$

$$\overline{AC} \text{ length} = 1$$

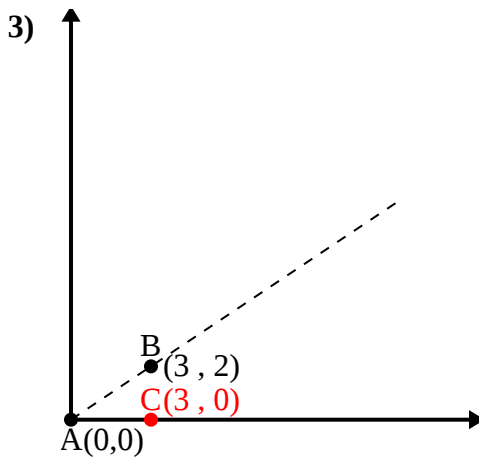
$$\overline{BC} \text{ length} = 4$$

$$(17 + 1 + 16) \div (2 \times 4.12 \times 1)$$

$$0.24$$

$$\cos^{-1}(0.24)$$

$$75.96^\circ$$



$$\overline{AB} \text{ length} = 3.61$$

$$\overline{AC} \text{ length} = 3$$

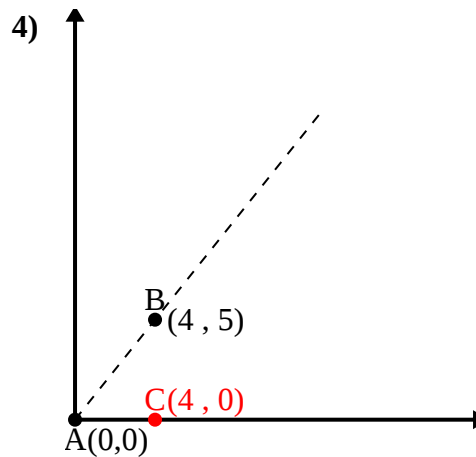
$$\overline{BC} \text{ length} = 2$$

$$(13 + 9 + 4) \div (2 \times 3.61 \times 3)$$

$$0.83$$

$$\cos^{-1}(0.83)$$

$$33.69^\circ$$



$$\overline{AB} \text{ length} = 6.4$$

$$\overline{AC} \text{ length} = 4$$

$$\overline{BC} \text{ length} = 5$$

$$(41 + 16 + 25) \div (2 \times 6.4 \times 4)$$

$$0.62$$

$$\cos^{-1}(0.62)$$

$$51.34^\circ$$

1. 56.31°
2. 75.96°
3. 33.69°
4. 51.34°