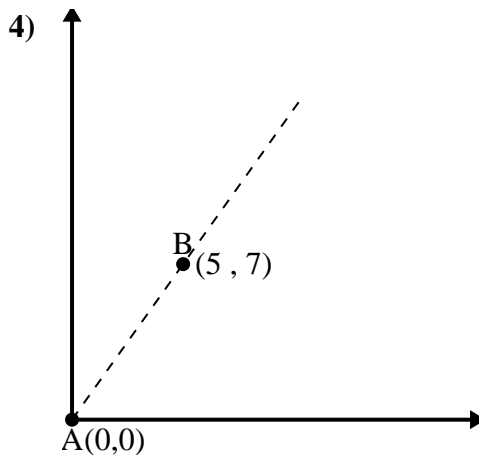
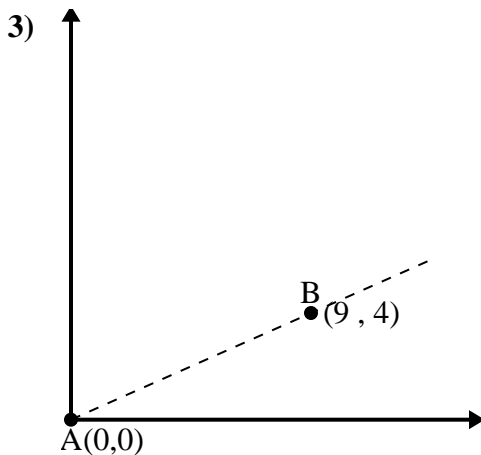
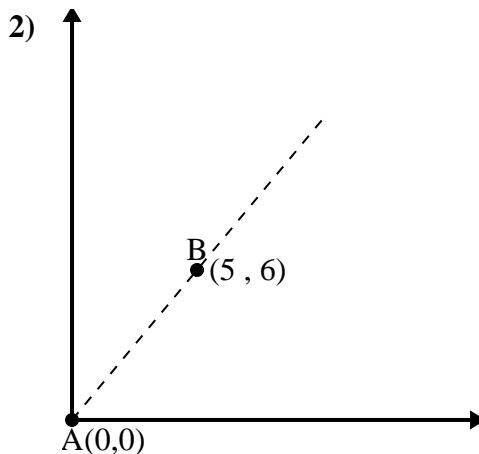
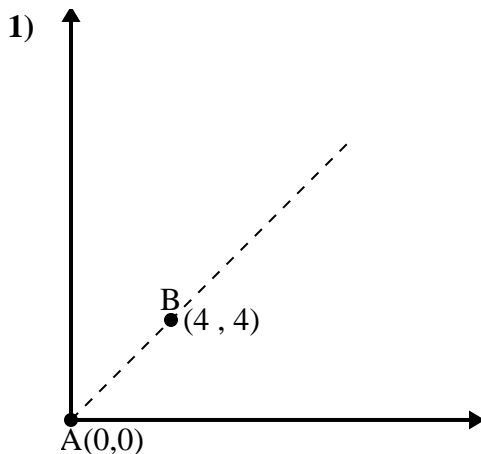




Use the law of Cosines to find the point B's angle relative to point A.

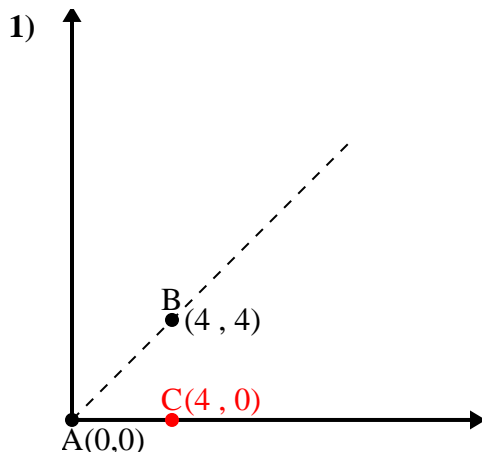
Answers



- 1. _____
- 2. _____
- 3. _____
- 4. _____



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

Answers

$$\overline{AB} \text{ length} = 5.66$$

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

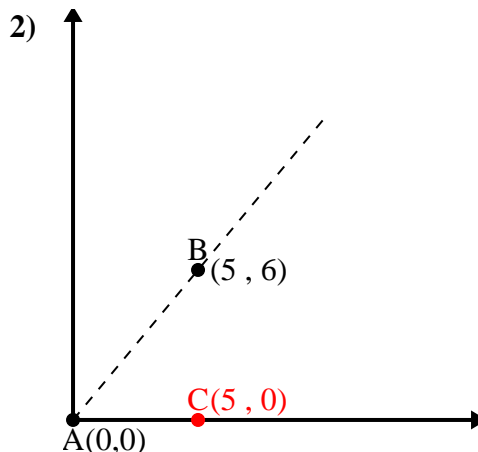
$$\overline{BC} \text{ length} = 4$$

$$(32 + 16 + 16) \div (2 \times 5.66 \times 4)$$

$$0.71$$

$$\cos^{-1}(0.71)$$

$$45^\circ$$



$$\overline{AB} \text{ length} = 7.81$$

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

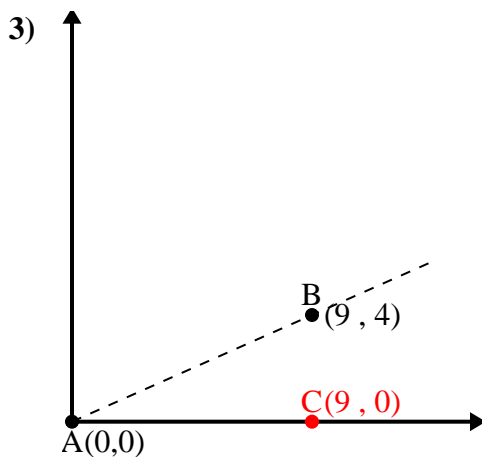
$$\overline{BC} \text{ length} = 6$$

$$(61 + 25 + 36) \div (2 \times 7.81 \times 5)$$

$$0.64$$

$$\cos^{-1}(0.64)$$

$$50.19^\circ$$



$$\overline{AB} \text{ length} = 9.85$$

$$\overline{AC} \text{ length} = 9$$

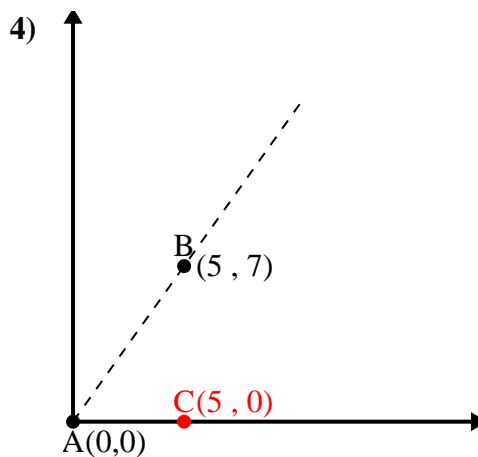
$$\overline{BC} \text{ length} = 4$$

$$(97 + 81 + 16) \div (2 \times 9.85 \times 9)$$

$$0.91$$

$$\cos^{-1}(0.91)$$

$$23.96^\circ$$



$$\overline{AB} \text{ length} = 8.6$$

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

$$\overline{BC} \text{ length} = 7$$

$$(74 + 25 + 49) \div (2 \times 8.6 \times 5)$$

$$0.58$$

$$\cos^{-1}(0.58)$$

$$54.46^\circ$$

1. 45°

2. 50.19°

3. 23.96°

4. 54.46°