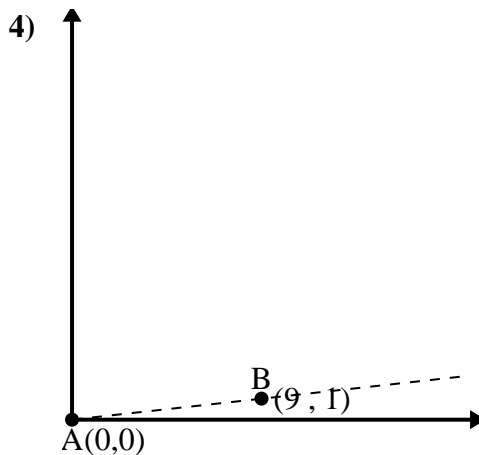
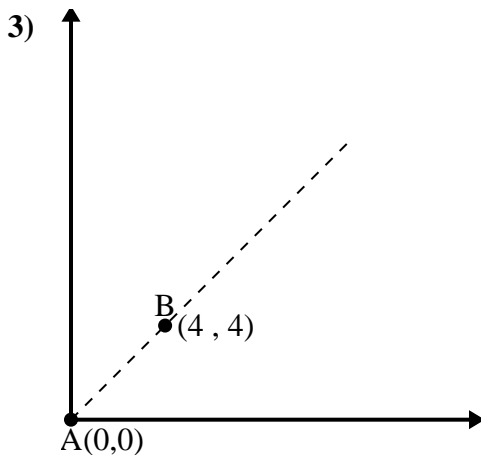
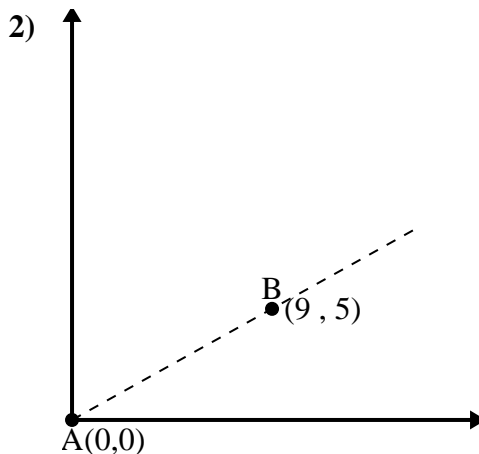
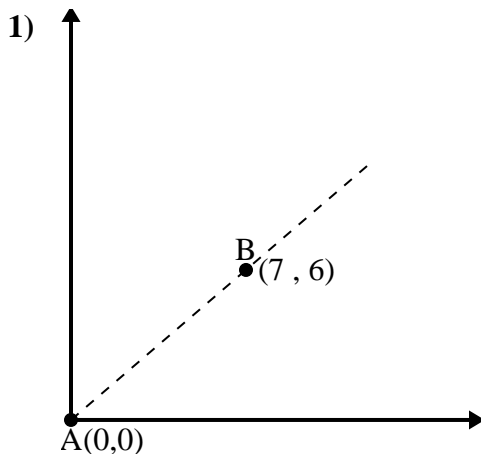




Use the law of Cosines to find the point B's angle relative to point A.

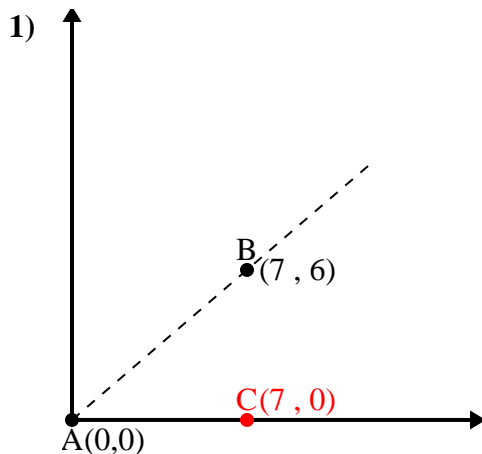
Answers



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



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

Answers

$$\overline{AB} \text{ length} = 9.22$$

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

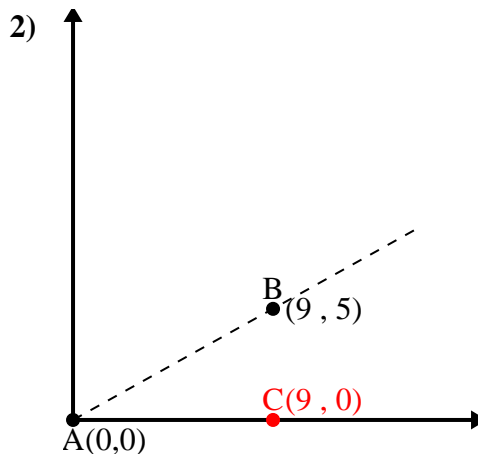
$$\overline{BC} \text{ length} = 6$$

$$(85 + 49 + 36) \div (2 \times 9.22 \times 7)$$

$$0.76$$

$$\cos^{-1}(0.76)$$

$$40.6^\circ$$



$$\overline{AB} \text{ length} = 10.3$$

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

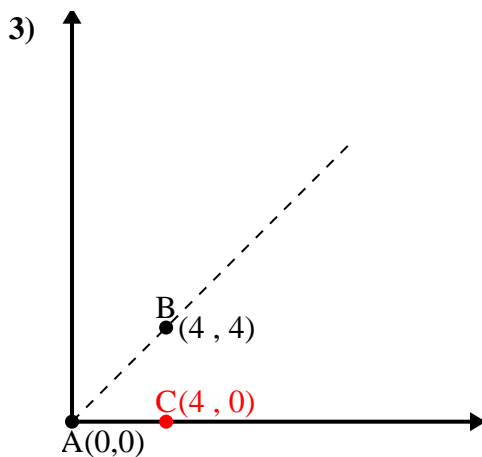
$$\overline{BC} \text{ length} = 5$$

$$(106 + 81 + 25) \div (2 \times 10.3 \times 9)$$

$$0.87$$

$$\cos^{-1}(0.87)$$

$$29.05^\circ$$



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

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

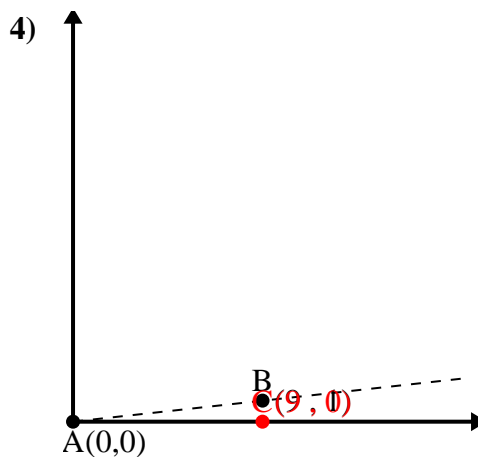
$$\overline{BC} \text{ length} = 4$$

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

$$0.71$$

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

$$45^\circ$$



$$\overline{AB} \text{ length} = 9.06$$

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

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

$$(82 + 81 + 1) \div (2 \times 9.06 \times 9)$$

$$0.99$$

$$\cos^{-1}(0.99)$$

$$6.34^\circ$$

1. 40.6°

2. 29.05°

3. 45°

4. 6.34°