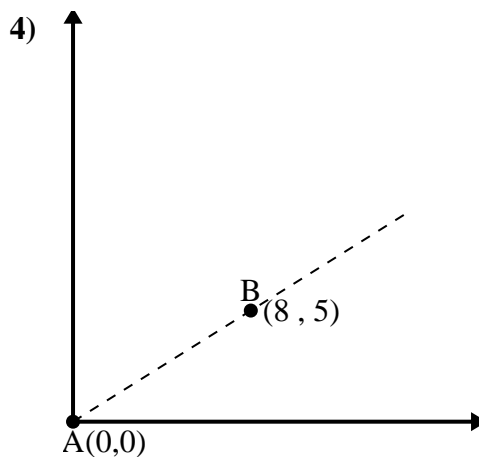
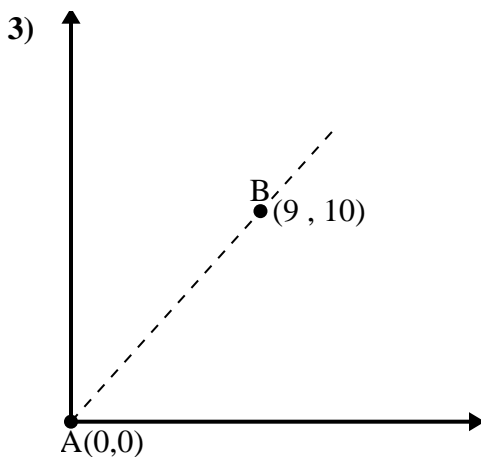
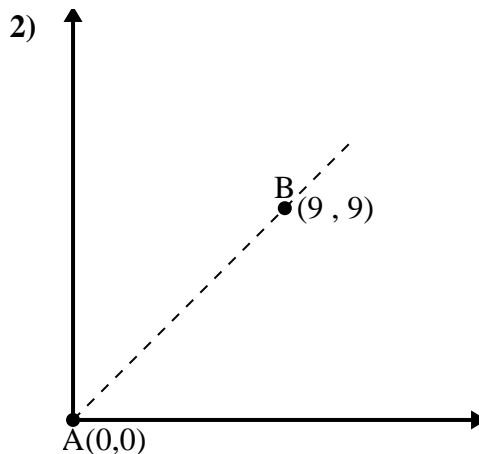
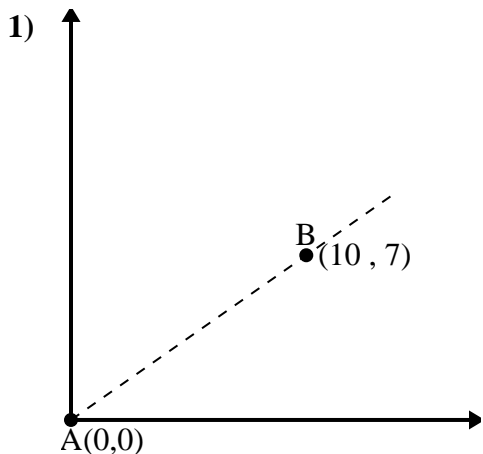




Use the law of Cosines to find the point B's angle relative to point A.

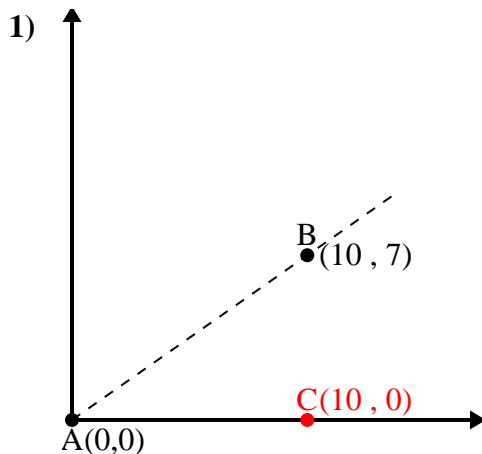
Answers



- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_



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

Answers

$$\overline{AB} \text{ length} = 12.21$$

$$\overline{AC} \text{ length} = 10$$

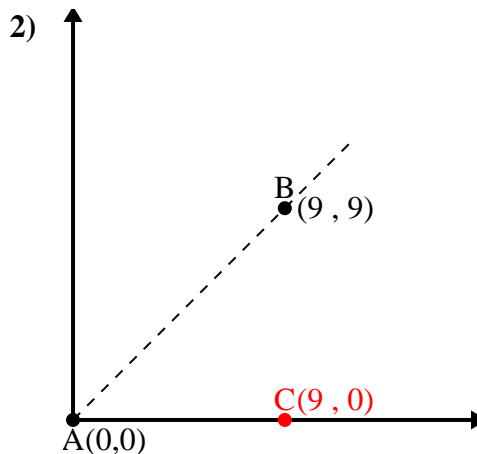
$$\overline{BC} \text{ length} = 7$$

$$(149 + 100 + 49) \div (2 \times 12.21 \times 10)$$

$$0.82$$

$$\cos^{-1}(0.82)$$

$$34.99^\circ$$



$$\overline{AB} \text{ length} = 12.73$$

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

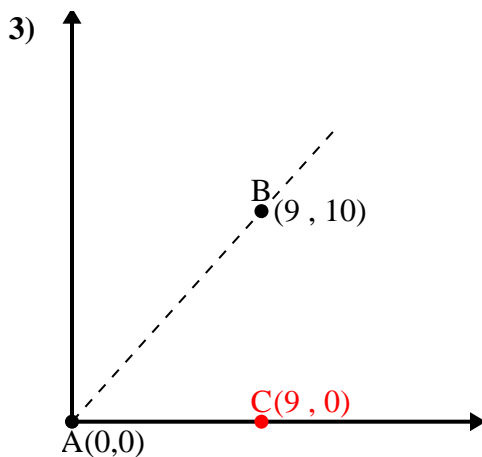
$$\overline{BC} \text{ length} = 9$$

$$(162 + 81 + 81) \div (2 \times 12.73 \times 9)$$

$$0.71$$

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

$$45^\circ$$



$$\overline{AB} \text{ length} = 13.45$$

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

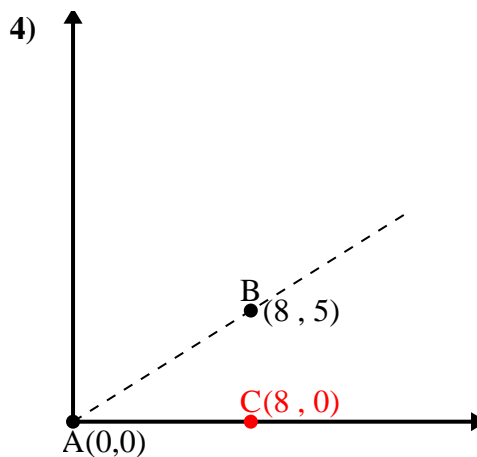
$$\overline{BC} \text{ length} = 10$$

$$(181 + 81 + 100) \div (2 \times 13.45 \times 9)$$

$$0.67$$

$$\cos^{-1}(0.67)$$

$$48.01^\circ$$



$$\overline{AB} \text{ length} = 9.43$$

$$\overline{AC} \text{ length} = 8$$

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

$$(89 + 64 + 25) \div (2 \times 9.43 \times 8)$$

$$0.85$$

$$\cos^{-1}(0.85)$$

$$32.01^\circ$$

1. 34.99°

2. 45°

3. 48.01°

4. 32.01°