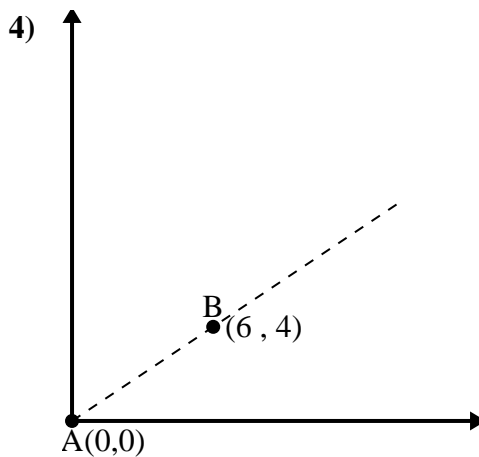
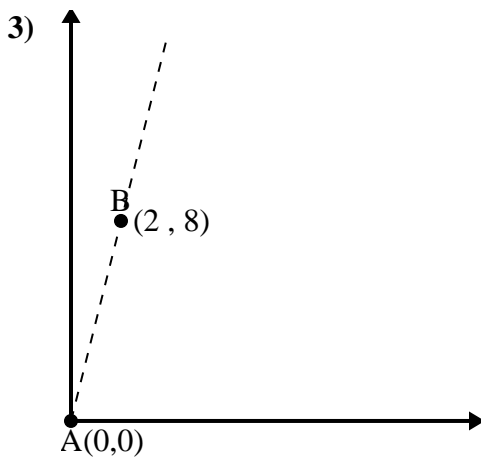
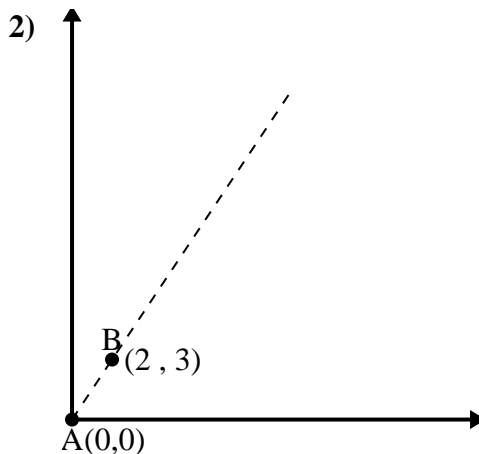
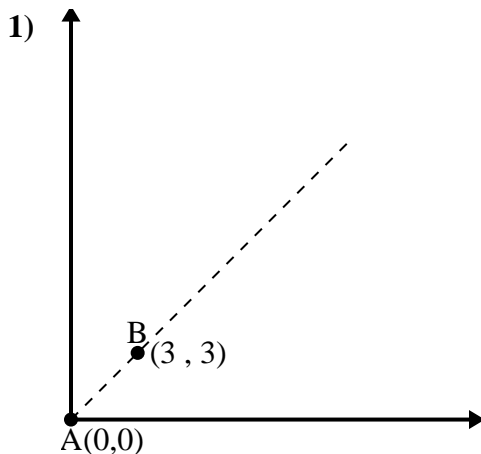




Use the law of Cosines to find the point B's angle relative to point A.

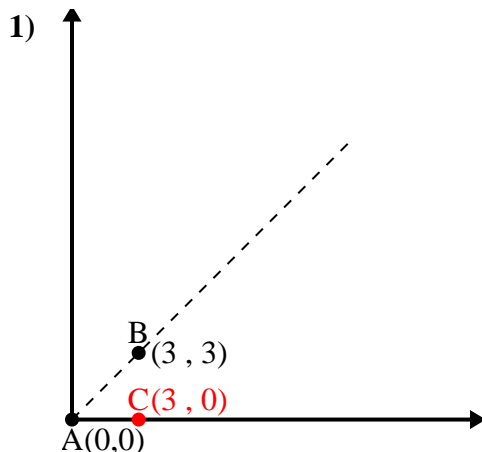
Answers



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



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

Answers

$$\overline{AB} \text{ length} = 4.24$$

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

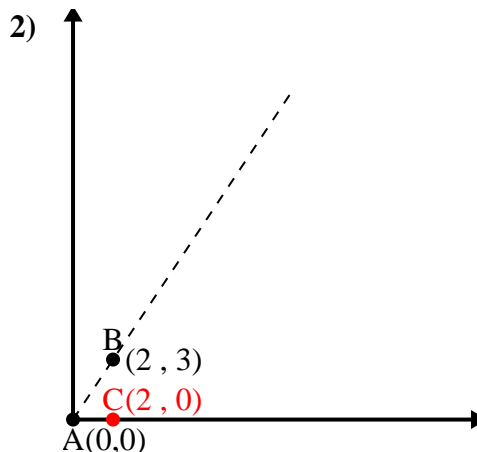
$$\overline{BC} \text{ length} = 3$$

$$(18 + 9 + 9) \div (2 \times 4.24 \times 3)$$

$$0.71$$

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

$$45^\circ$$



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

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

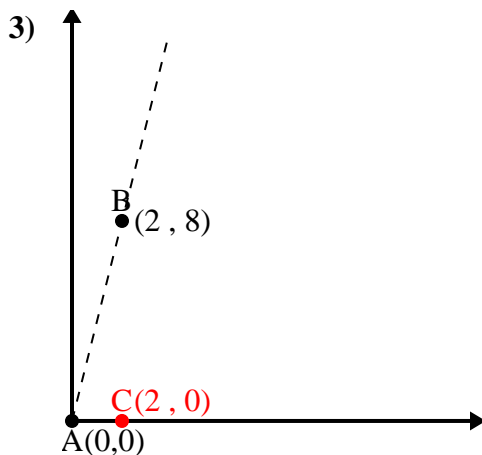
$$\overline{BC} \text{ length} = 3$$

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

$$0.55$$

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

$$56.31^\circ$$



$$\overline{AB} \text{ length} = 8.25$$

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

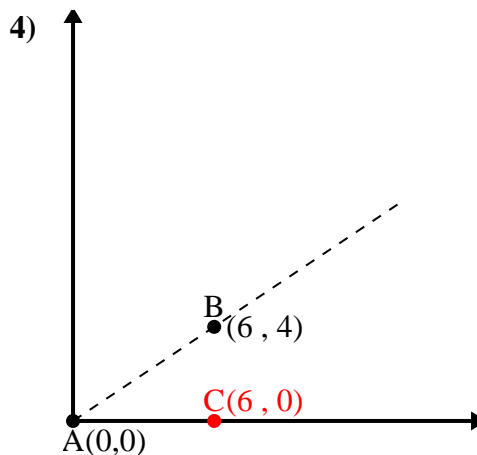
$$\overline{BC} \text{ length} = 8$$

$$(68 + 4 + 64) \div (2 \times 8.25 \times 2)$$

$$0.24$$

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

$$75.96^\circ$$



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

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

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

$$(52 + 36 + 16) \div (2 \times 7.21 \times 6)$$

$$0.83$$

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

$$33.69^\circ$$

1. 45°

2. 56.31°

3. 75.96°

4. 33.69°