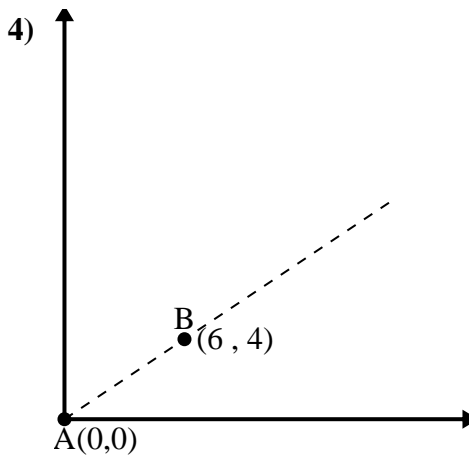
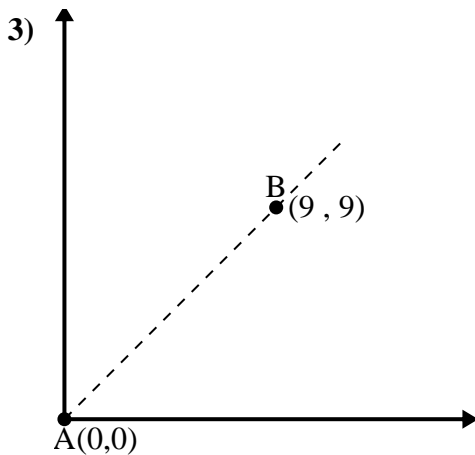
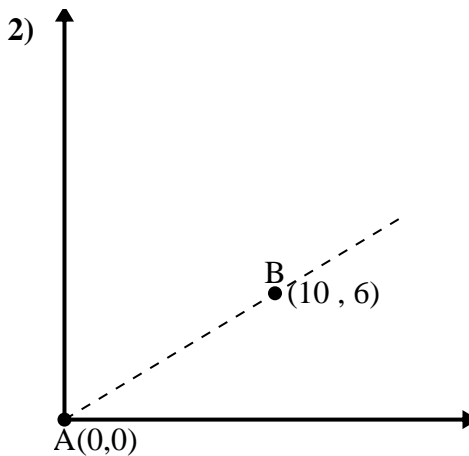
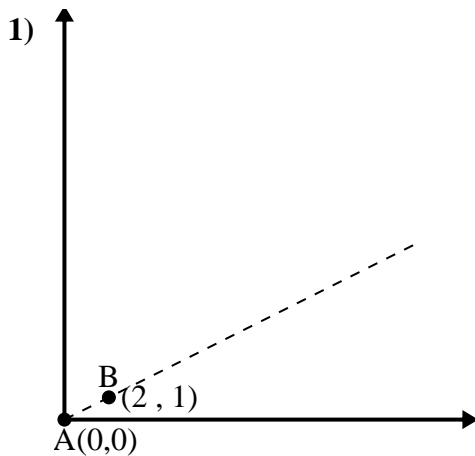




Use the law of Cosines to find the point B's angle relative to point A.



Answers

1. \_\_\_\_\_

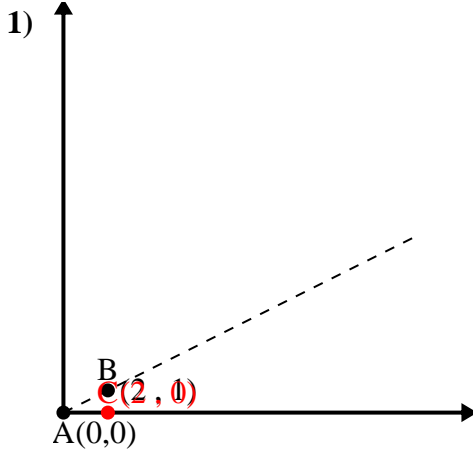
2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_



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



$$\overline{AB} \text{ length} = 2.24$$

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

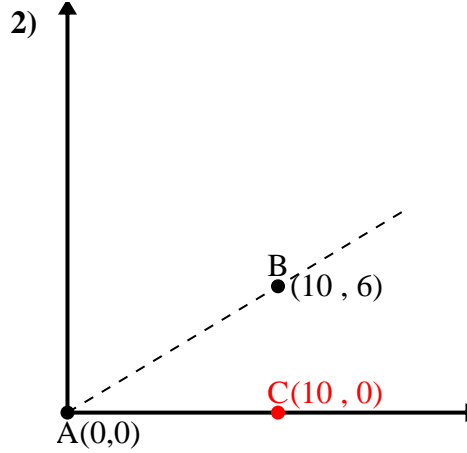
$$\overline{BC} \text{ length} = 1$$

$$(5 + 4 + 1) \div (2 \times 2.24 \times 2)$$

$$0.89$$

$$\cos^{-1}(0.89)$$

$$26.57^\circ$$



$$\overline{AB} \text{ length} = 11.66$$

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

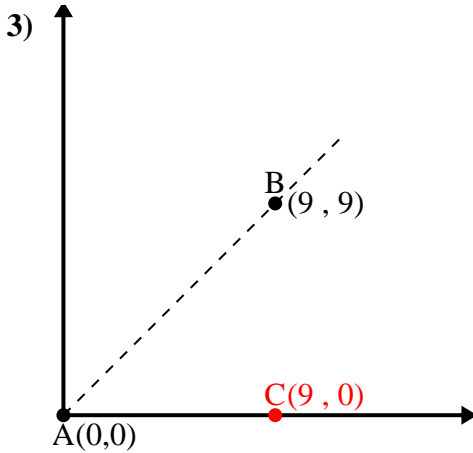
$$\overline{BC} \text{ length} = 6$$

$$(136 + 100 + 36) \div (2 \times 11.66 \times 10)$$

$$0.86$$

$$\cos^{-1}(0.86)$$

$$30.96^\circ$$



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

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

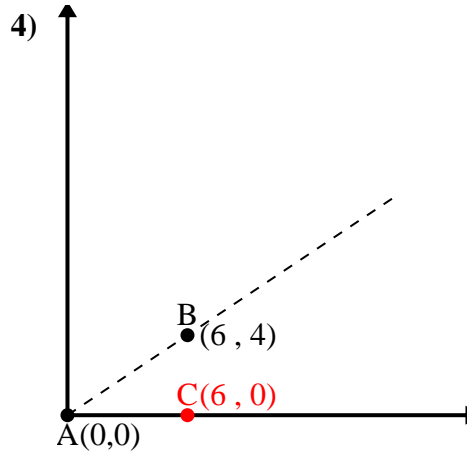
$$\overline{BC} \text{ length} = 9$$

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

$$0.71$$

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

$$45^\circ$$



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

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

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

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

$$0.83$$

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

$$33.69^\circ$$

Answers

1. 26.57°

2. 30.96°

3. 45°

4. 33.69°