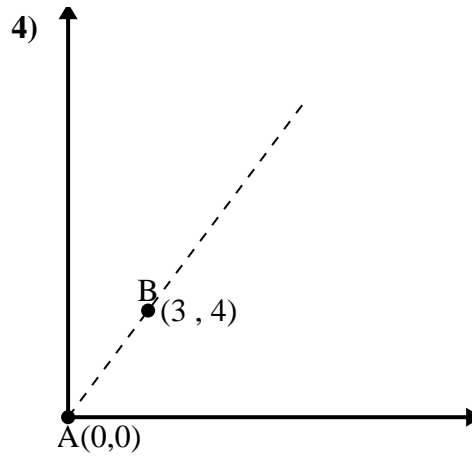
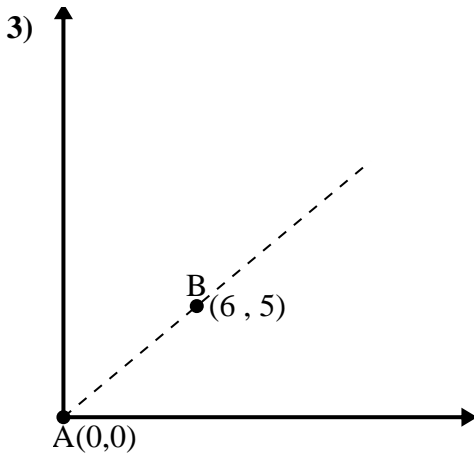
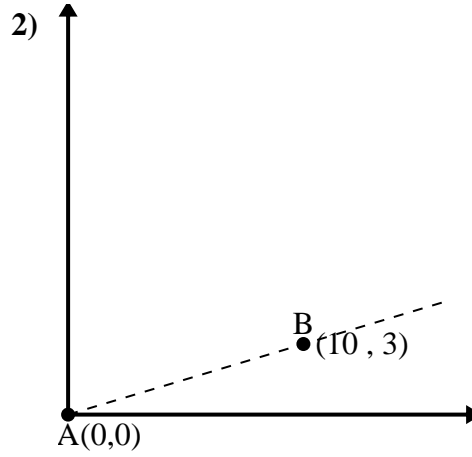
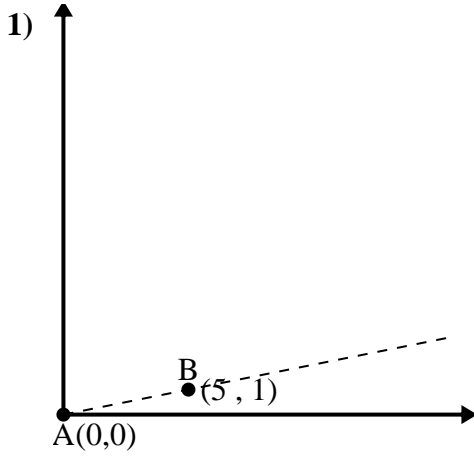




Use the law of Cosines to find the point B's angle relative to point A.



Answers

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

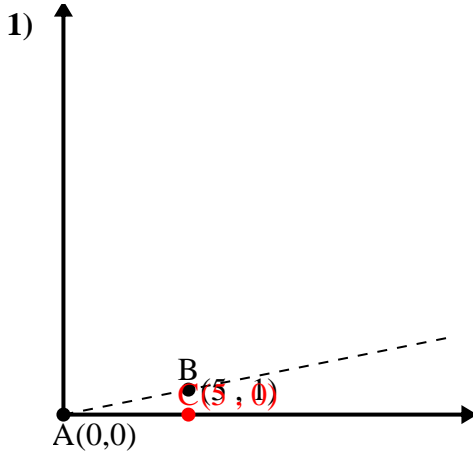
2. \_\_\_\_\_

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

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



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



$$\overline{AB} \text{ length} = 5.1$$

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

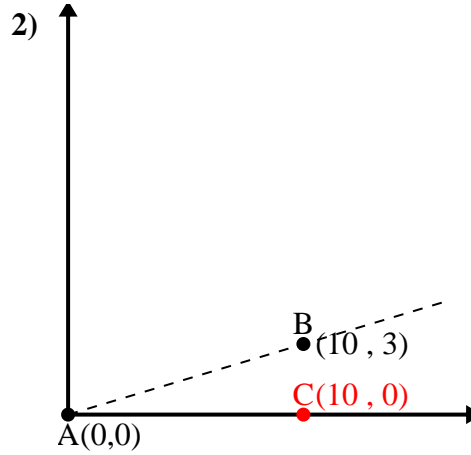
$$\overline{BC} \text{ length} = 1$$

$$(26 + 25 + 1) \div (2 \times 5.1 \times 5)$$

$$0.98$$

$$\cos^{-1}(0.98)$$

$$11.31^\circ$$



$$\overline{AB} \text{ length} = 10.44$$

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

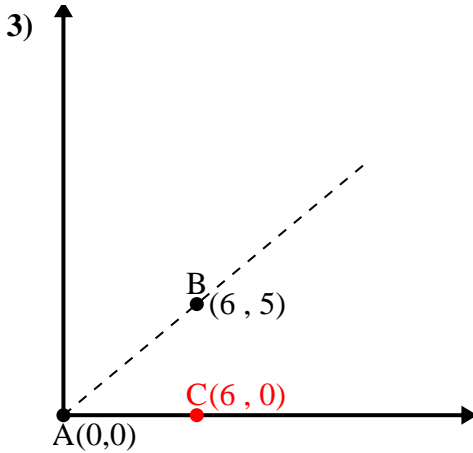
$$\overline{BC} \text{ length} = 3$$

$$(109 + 100 + 9) \div (2 \times 10.44 \times 10)$$

$$0.96$$

$$\cos^{-1}(0.96)$$

$$16.7^\circ$$



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

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

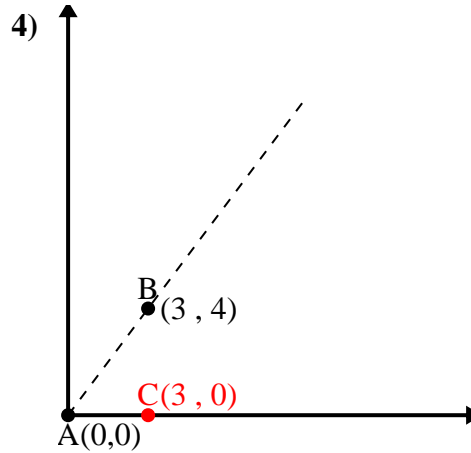
$$\overline{BC} \text{ length} = 5$$

$$(61 + 36 + 25) \div (2 \times 7.81 \times 6)$$

$$0.77$$

$$\cos^{-1}(0.77)$$

$$39.81^\circ$$



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

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

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

$$(25 + 9 + 16) \div (2 \times 5 \times 3)$$

$$0.6$$

$$\cos^{-1}(0.6)$$

$$53.13^\circ$$

Answers

1. 11.31°

2. 16.7°

3. 39.81°

4. 53.13°