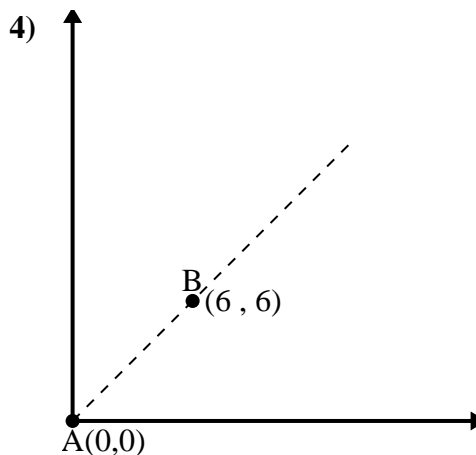
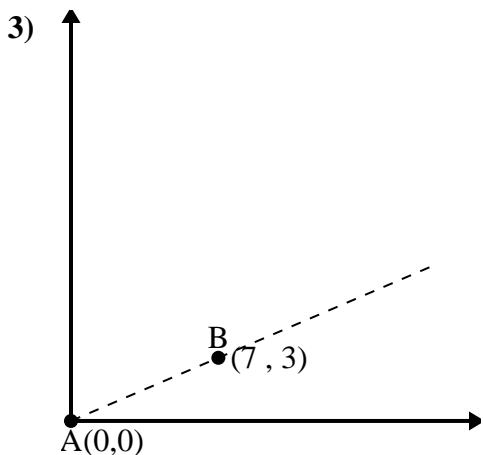
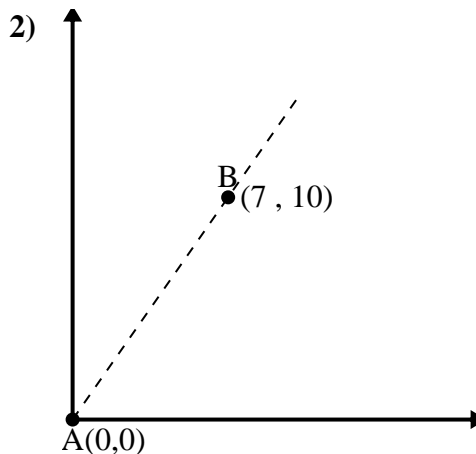
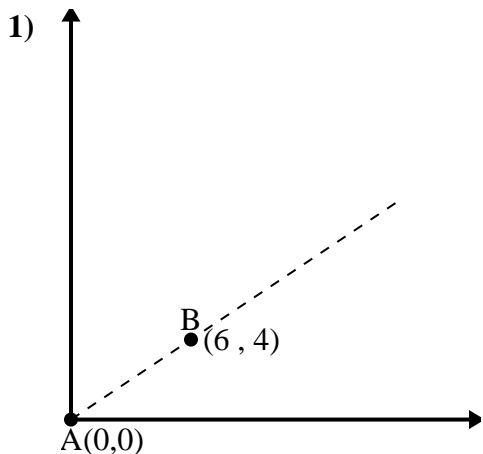




Use the law of Cosines to find the point B's angle relative to point A.

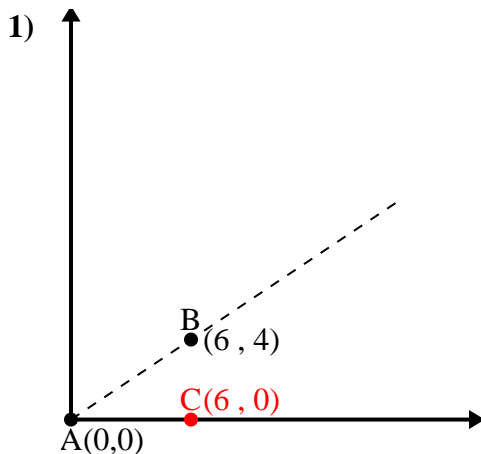
Answers



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



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

Answers

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

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

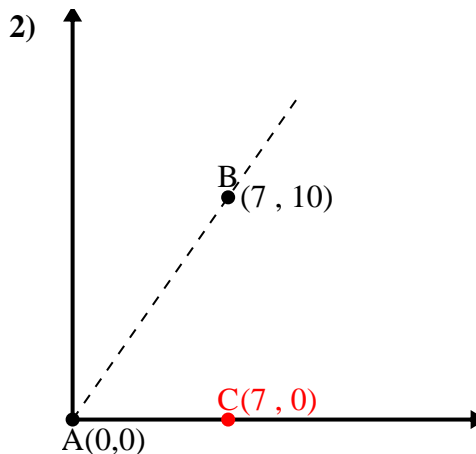
$$\overline{BC} \text{ length} = 4$$

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

$$0.83$$

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

$$33.69^\circ$$



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

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

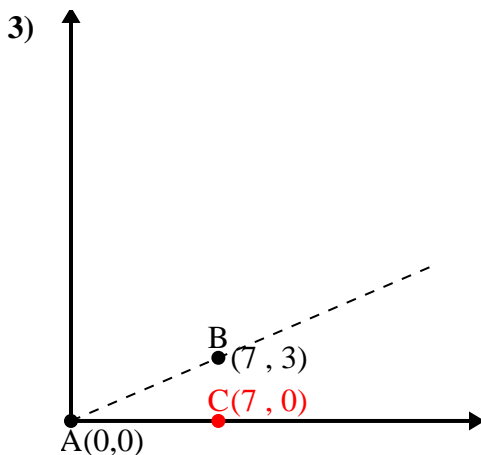
$$\overline{BC} \text{ length} = 10$$

$$(149 + 49 + 100) \div (2 \times 12.21 \times 7)$$

$$0.57$$

$$\cos^{-1}(0.57)$$

$$55.01^\circ$$



$$\overline{AB} \text{ length} = 7.62$$

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

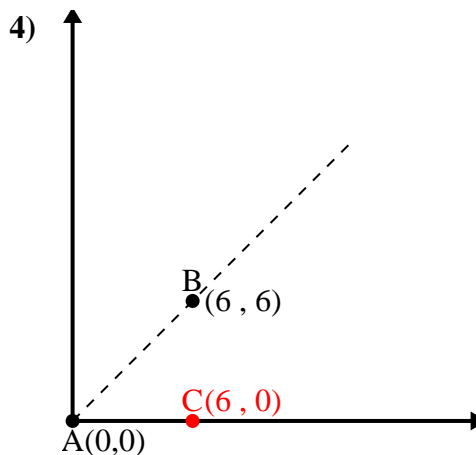
$$\overline{BC} \text{ length} = 3$$

$$(58 + 49 + 9) \div (2 \times 7.62 \times 7)$$

$$0.92$$

$$\cos^{-1}(0.92)$$

$$23.2^\circ$$



$$\overline{AB} \text{ length} = 8.49$$

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

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

$$(72 + 36 + 36) \div (2 \times 8.49 \times 6)$$

$$0.71$$

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

$$45^\circ$$

1. 33.69°
2. 55.01°
3. 23.2°
4. 45°