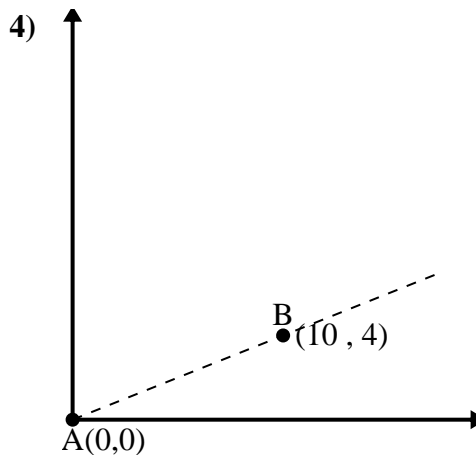
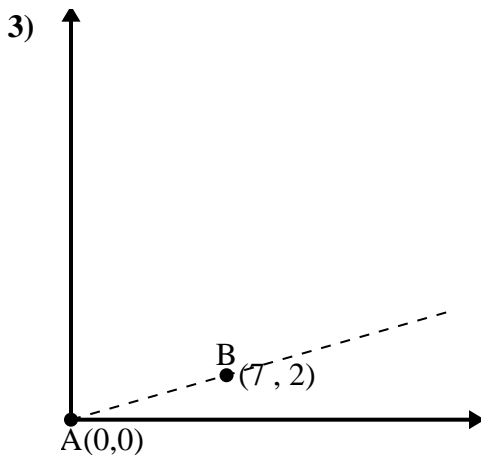
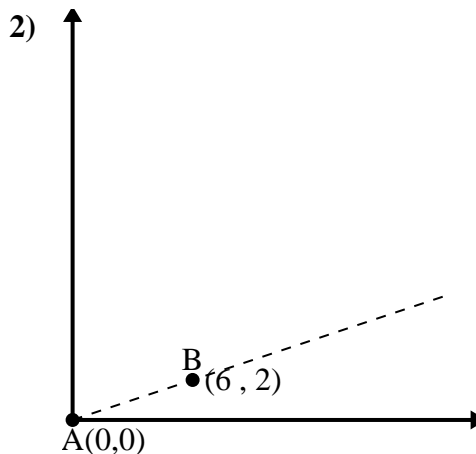
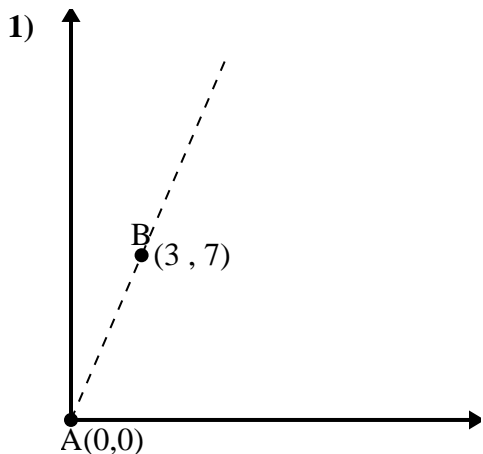




Use the law of Cosines to find the point B's angle relative to point A.

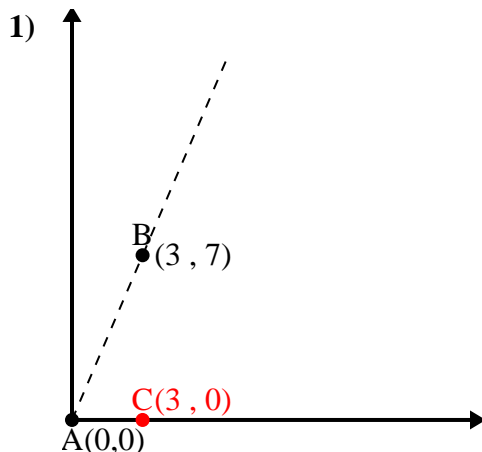
Answers



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



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

Answers

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

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

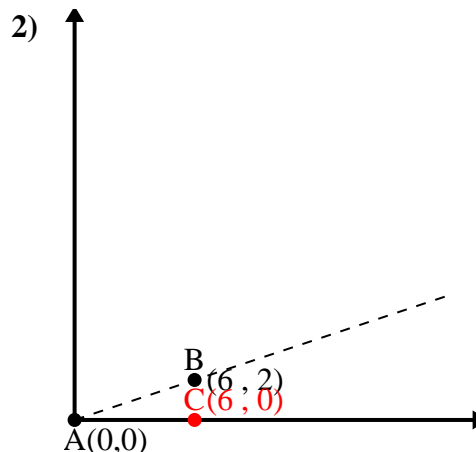
$$\overline{BC} \text{ length} = 7$$

$$(58 + 9 + 49) \div (2 \times 7.62 \times 3)$$

$$0.39$$

$$\cos^{-1}(0.39)$$

$$66.8^\circ$$



$$\overline{AB} \text{ length} = 6.32$$

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

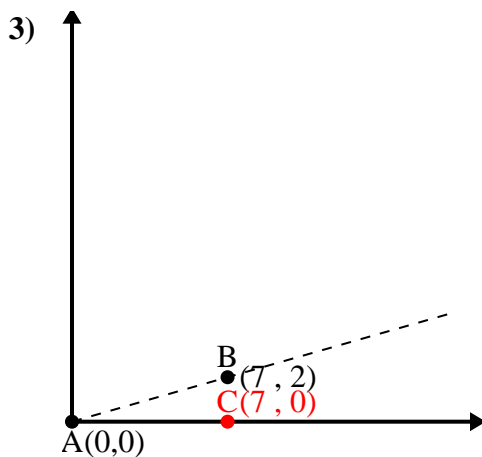
$$\overline{BC} \text{ length} = 2$$

$$(40 + 36 + 4) \div (2 \times 6.32 \times 6)$$

$$0.95$$

$$\cos^{-1}(0.95)$$

$$18.43^\circ$$



$$\overline{AB} \text{ length} = 7.28$$

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

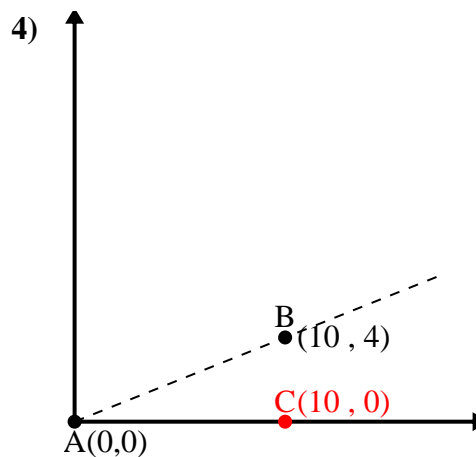
$$\overline{BC} \text{ length} = 2$$

$$(53 + 49 + 4) \div (2 \times 7.28 \times 7)$$

$$0.96$$

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

$$15.95^\circ$$



$$\overline{AB} \text{ length} = 10.77$$

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

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

$$(116 + 100 + 16) \div (2 \times 10.77 \times 10)$$

$$0.93$$

$$\cos^{-1}(0.93)$$

$$21.8^\circ$$

1. 66.8°

2. 18.43°

3. 15.95°

4. 21.8°