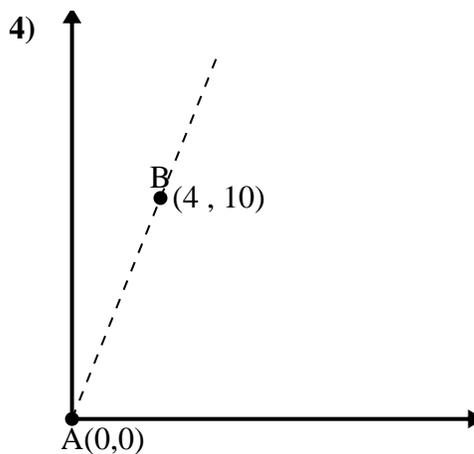
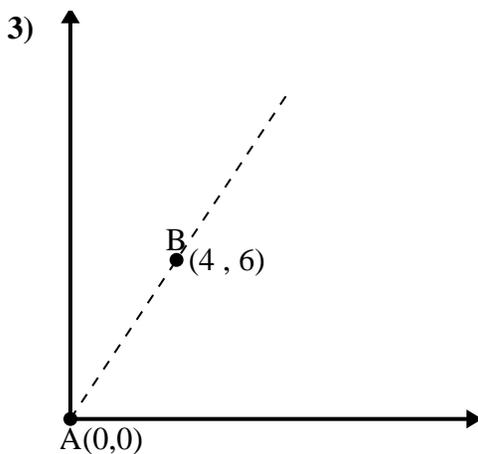
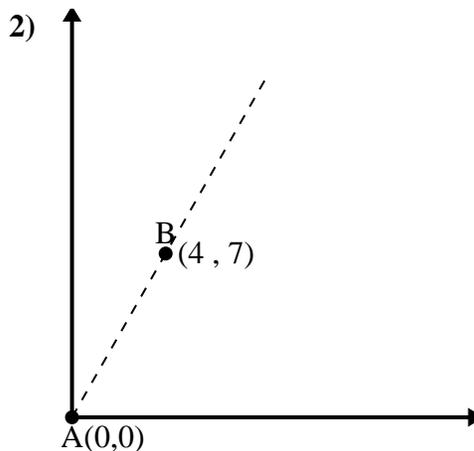
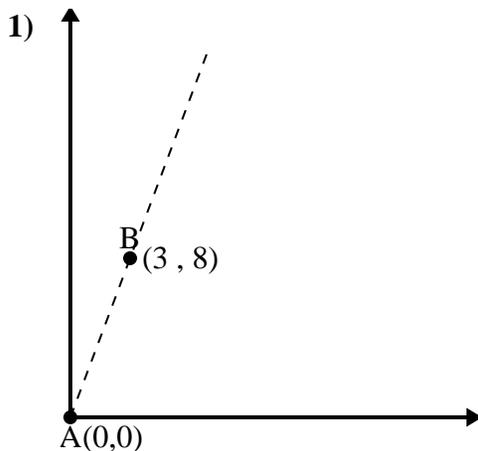




Use the law of Cosines to find the point B's angle relative to point A.

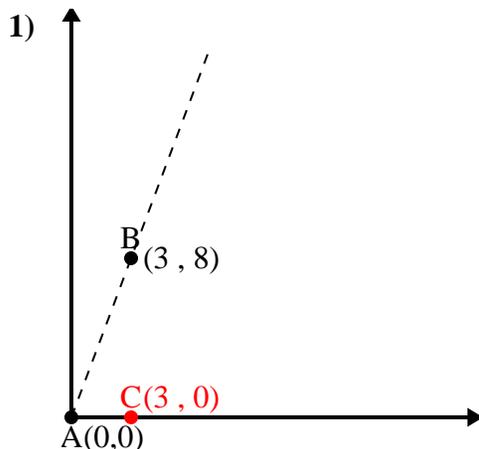
Answers



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



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

Answers

$$\overline{AB} \text{ length} = 8.54$$

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

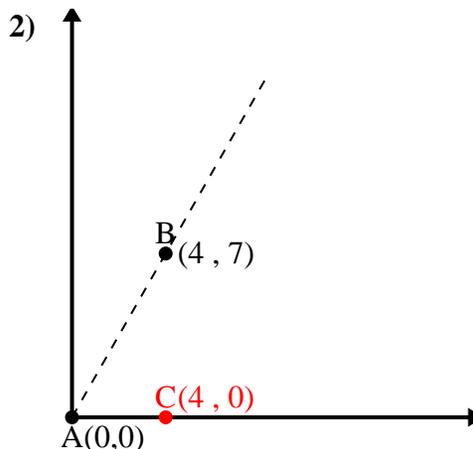
$$\overline{BC} \text{ length} = 8$$

$$(73 + 9 + 64) \div (2 \times 8.54 \times 3)$$

$$0.35$$

$$\cos^{-1}(0.35)$$

$$69.44^\circ$$



$$\overline{AB} \text{ length} = 8.06$$

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

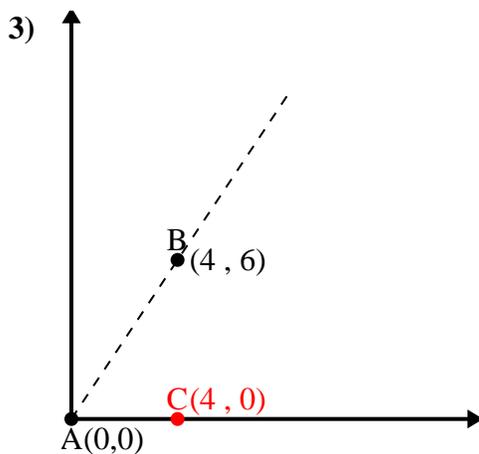
$$\overline{BC} \text{ length} = 7$$

$$(65 + 16 + 49) \div (2 \times 8.06 \times 4)$$

$$0.5$$

$$\cos^{-1}(0.5)$$

$$60.26^\circ$$



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

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

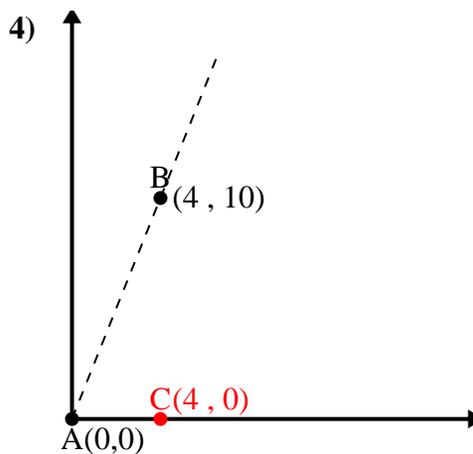
$$\overline{BC} \text{ length} = 6$$

$$(52 + 16 + 36) \div (2 \times 7.21 \times 4)$$

$$0.55$$

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

$$56.31^\circ$$



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

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

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

$$(116 + 16 + 100) \div (2 \times 10.77 \times 4)$$

$$0.37$$

$$\cos^{-1}(0.37)$$

$$68.2^\circ$$

1. 69.44°
2. 60.26°
3. 56.31°
4. 68.2°