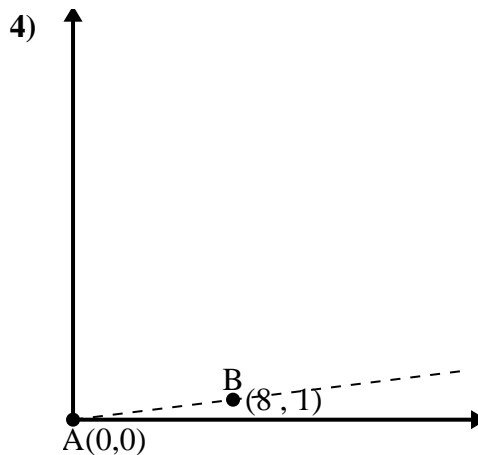
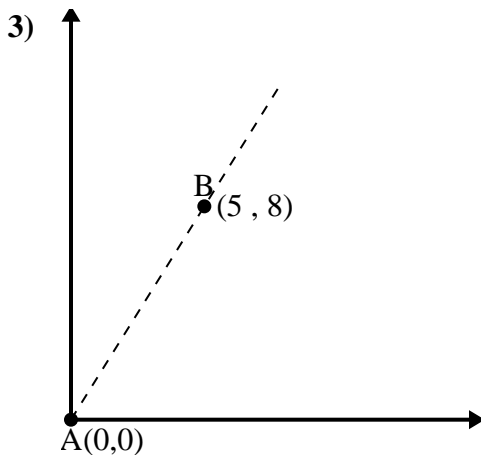
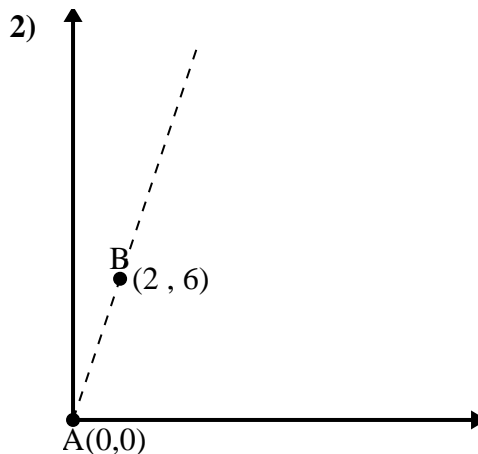
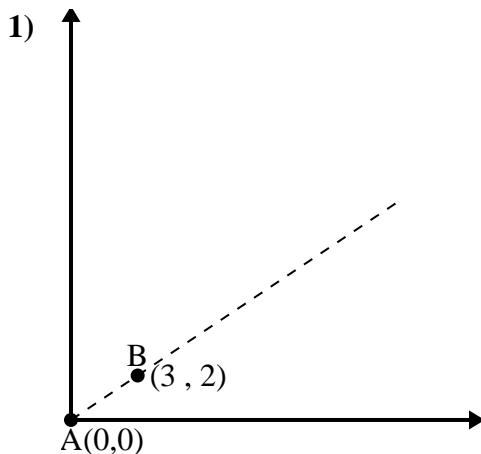




Use the law of Cosines to find the point B's angle relative to point A.

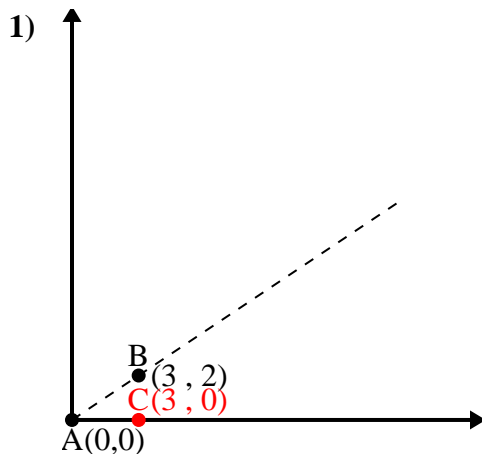
Answers



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



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

Answers

$$\overline{AB} \text{ length} = 3.61$$

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

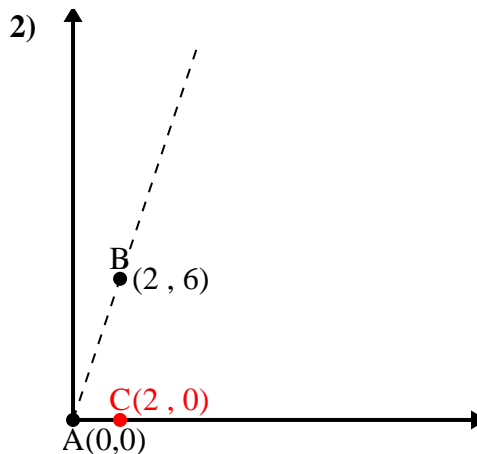
$$\overline{BC} \text{ length} = 2$$

$$(13 + 9 + 4) \div (2 \times 3.61 \times 3)$$

$$0.83$$

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

$$33.69^\circ$$



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

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

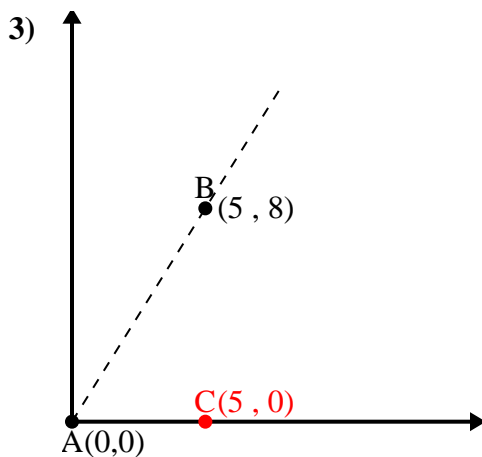
$$\overline{BC} \text{ length} = 6$$

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

$$0.32$$

$$\cos^{-1}(0.32)$$

$$71.57^\circ$$



$$\overline{AB} \text{ length} = 9.43$$

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

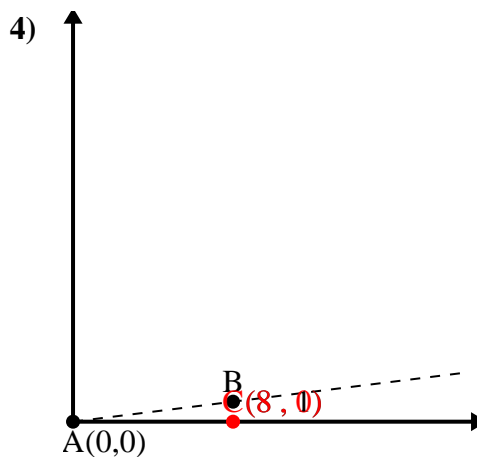
$$\overline{BC} \text{ length} = 8$$

$$(89 + 25 + 64) \div (2 \times 9.43 \times 5)$$

$$0.53$$

$$\cos^{-1}(0.53)$$

$$57.99^\circ$$



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

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

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

$$(65 + 64 + 1) \div (2 \times 8.06 \times 8)$$

$$0.99$$

$$\cos^{-1}(0.99)$$

$$7.13^\circ$$

1. 33.69°
2. 71.57°
3. 57.99°
4. 7.13°