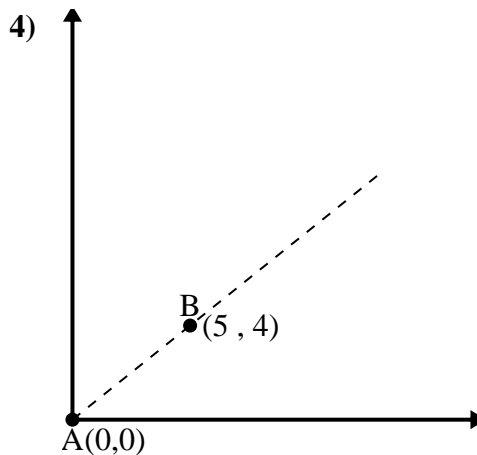
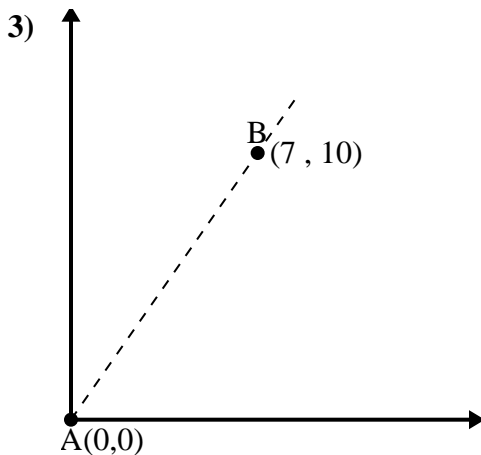
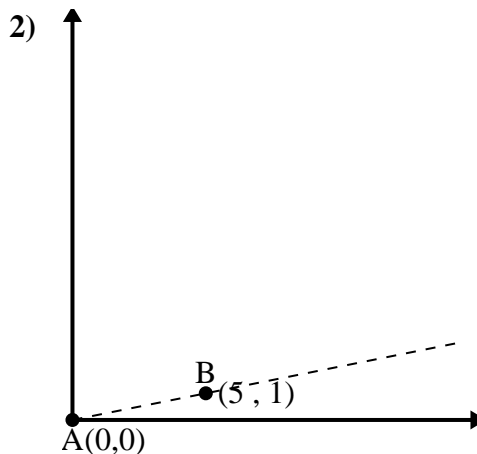
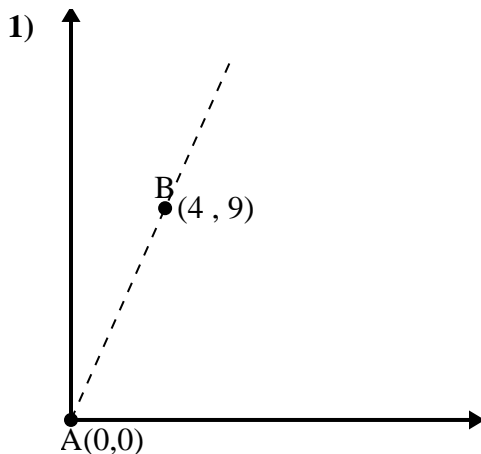




Use the law of Cosines to find the point B's angle relative to point A.

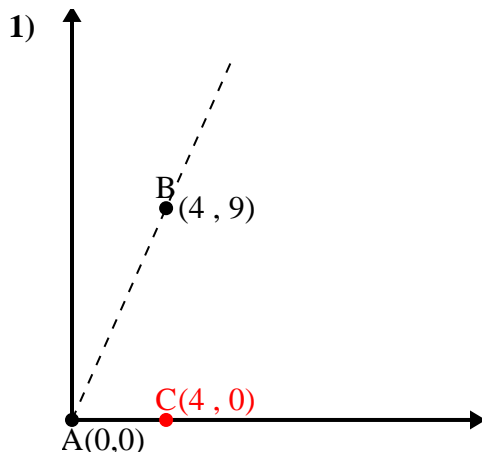
Answers



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



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

Answers

$$\overline{AB} \text{ length} = 9.85$$

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

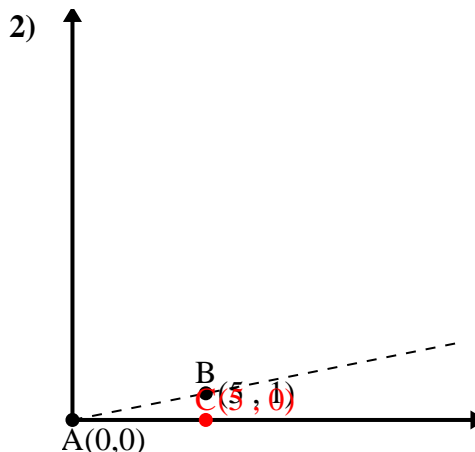
$$\overline{BC} \text{ length} = 9$$

$$(97 + 16 + 81) \div (2 \times 9.85 \times 4)$$

$$0.41$$

$$\cos^{-1}(0.41)$$

$$66.04^\circ$$



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

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

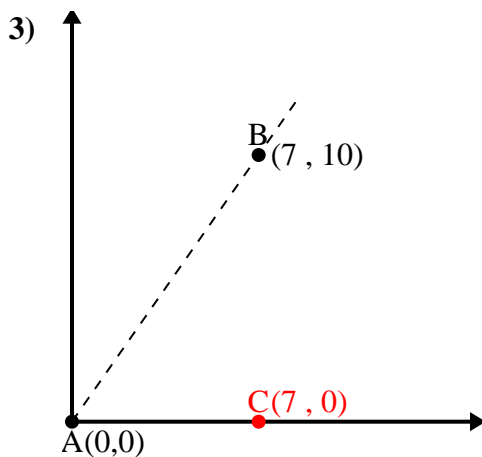
$$\overline{BC} \text{ length} = 1$$

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

$$0.98$$

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

$$11.31^\circ$$



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

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

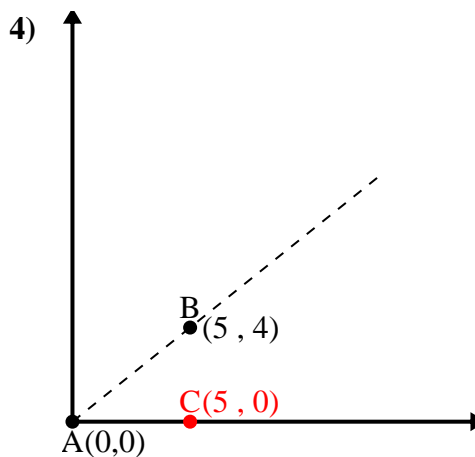
$$\overline{BC} \text{ length} = 10$$

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

$$0.57$$

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

$$55.01^\circ$$



$$\overline{AB} \text{ length} = 6.4$$

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

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

$$(41 + 25 + 16) \div (2 \times 6.4 \times 5)$$

$$0.78$$

$$\cos^{-1}(0.78)$$

$$38.66^\circ$$

1. 66.04°
2. 11.31°
3. 55.01°
4. 38.66°