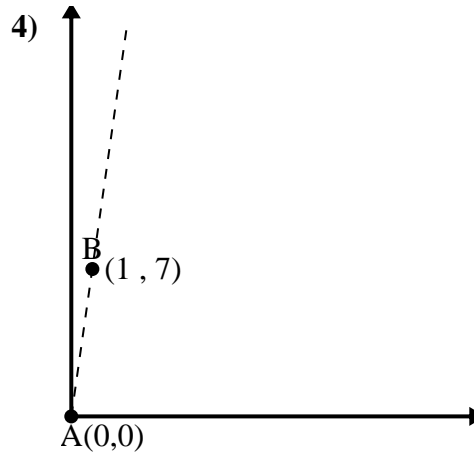
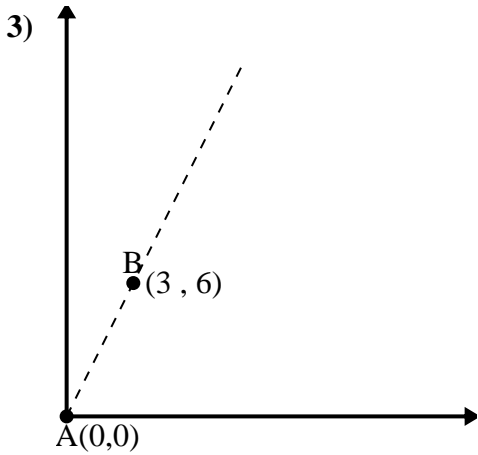
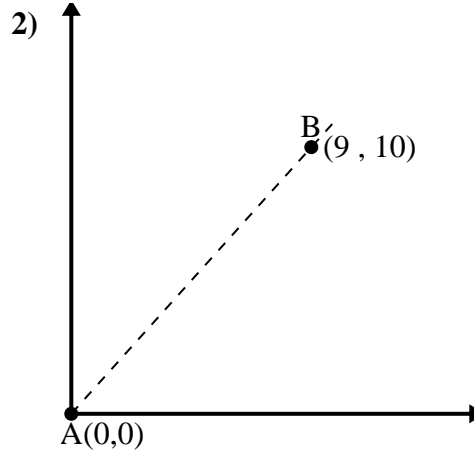
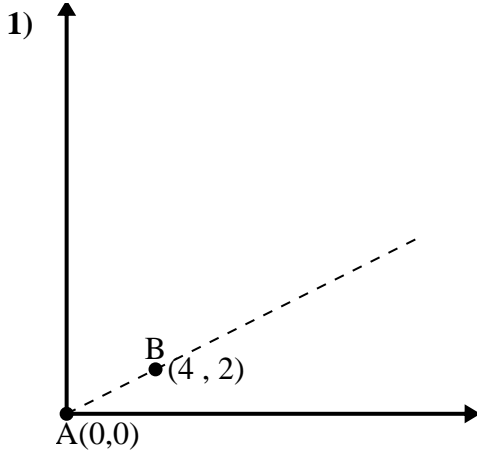




Use the law of Cosines to find the point B's angle relative to point A.



Answers

1. \_\_\_\_\_

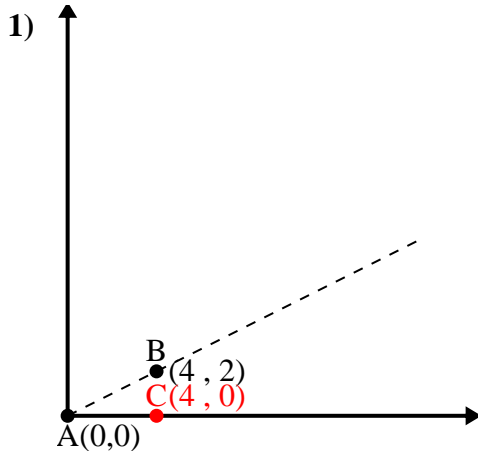
2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_



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



$$\overline{AB} \text{ length} = 4.47$$

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

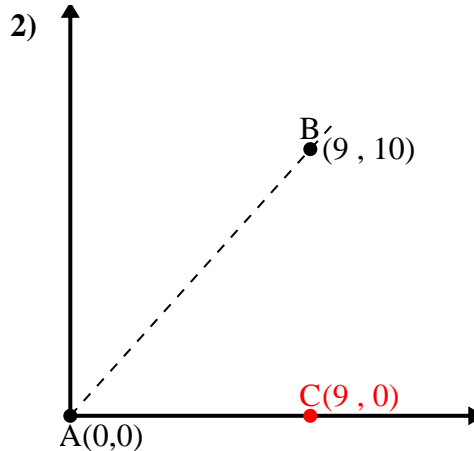
$$\overline{BC} \text{ length} = 2$$

$$(20 + 16 + 4) \div (2 \times 4.47 \times 4)$$

$$0.89$$

$$\cos^{-1}(0.89)$$

$$26.57^\circ$$



$$\overline{AB} \text{ length} = 13.45$$

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

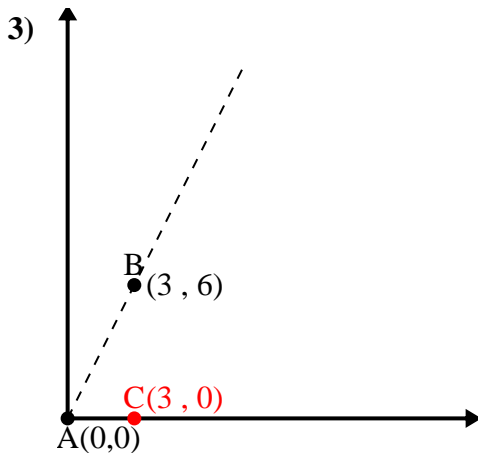
$$\overline{BC} \text{ length} = 10$$

$$(181 + 81 + 100) \div (2 \times 13.45 \times 9)$$

$$0.67$$

$$\cos^{-1}(0.67)$$

$$48.01^\circ$$



$$\overline{AB} \text{ length} = 6.71$$

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

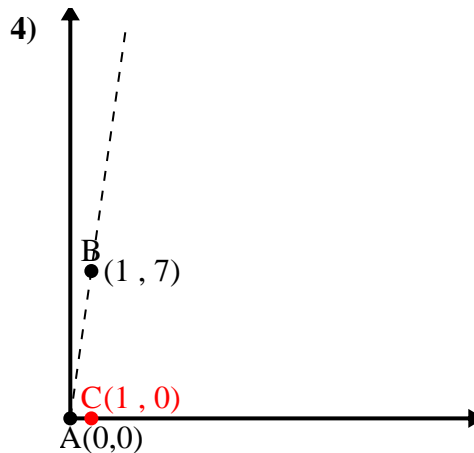
$$\overline{BC} \text{ length} = 6$$

$$(45 + 9 + 36) \div (2 \times 6.71 \times 3)$$

$$0.45$$

$$\cos^{-1}(0.45)$$

$$63.43^\circ$$



$$\overline{AB} \text{ length} = 7.07$$

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

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

$$(50 + 1 + 49) \div (2 \times 7.07 \times 1)$$

$$0.14$$

$$\cos^{-1}(0.14)$$

$$81.87^\circ$$

Answers

1. 26.57°

2. 48.01°

3. 63.43°

4. 81.87°