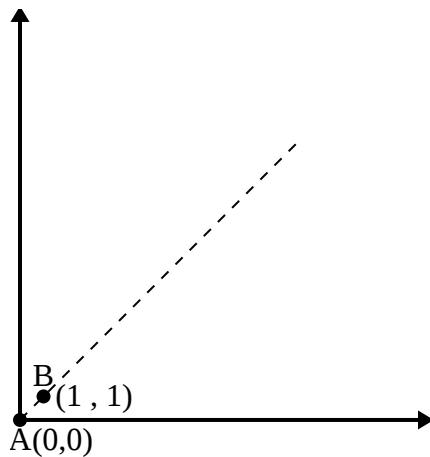




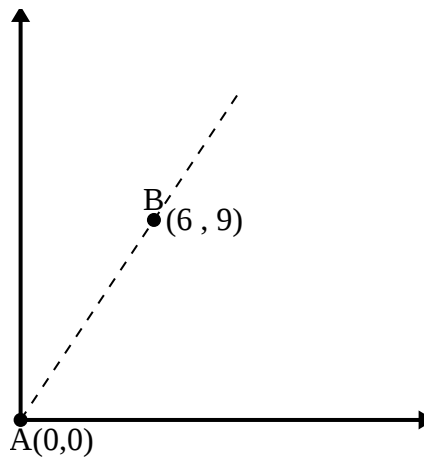
Use the law of Cosines to find the point B's angle relative to point A.

Answers

1)



2)



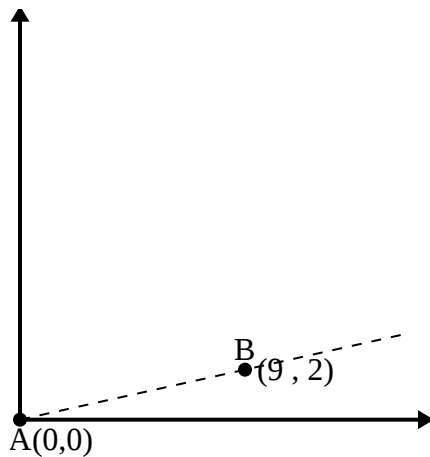
1. _____

2. _____

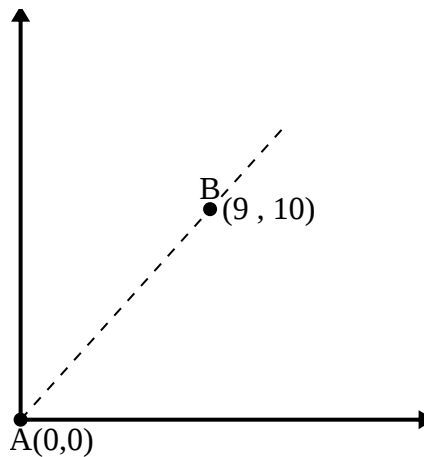
3. _____

4. _____

3)

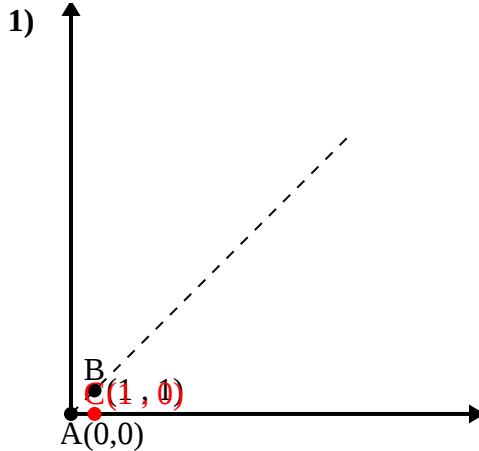


4)





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

Answers

$$\overline{AB} \text{ length} = 1.41$$

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

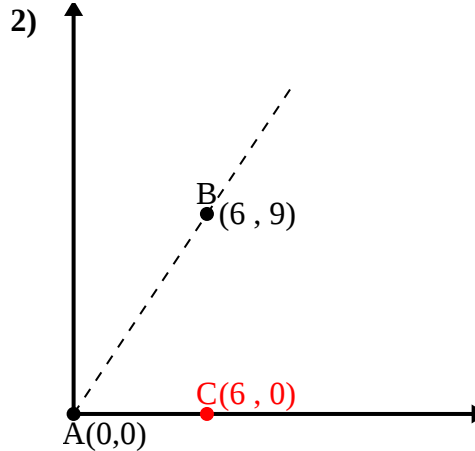
$$\overline{BC} \text{ length} = 1$$

$$(2 + 1 + 1) \div (2 \times 1.41 \times 1)$$

$$0.71$$

$$\cos^{-1}(0.71)$$

$$45^\circ$$



$$\overline{AB} \text{ length} = 10.82$$

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

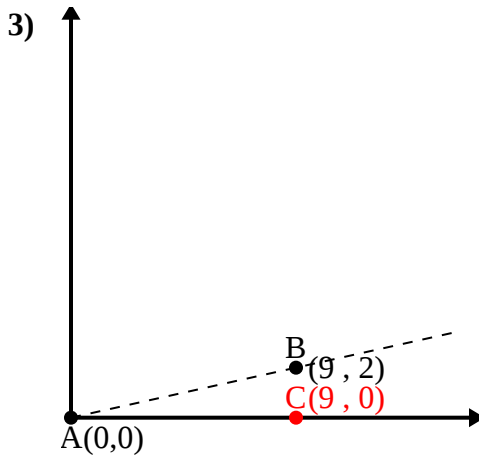
$$\overline{BC} \text{ length} = 9$$

$$(117 + 36 + 81) \div (2 \times 10.82 \times 6)$$

$$0.55$$

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

$$56.31^\circ$$



$$\overline{AB} \text{ length} = 9.22$$

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

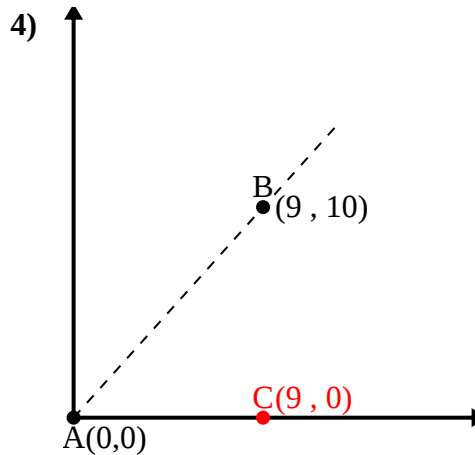
$$\overline{BC} \text{ length} = 2$$

$$(85 + 81 + 4) \div (2 \times 9.22 \times 9)$$

$$0.98$$

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

$$12.53^\circ$$



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

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

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

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

$$0.67$$

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

$$48.01^\circ$$

1. 45°
2. 56.31°
3. 12.53°
4. 48.01°