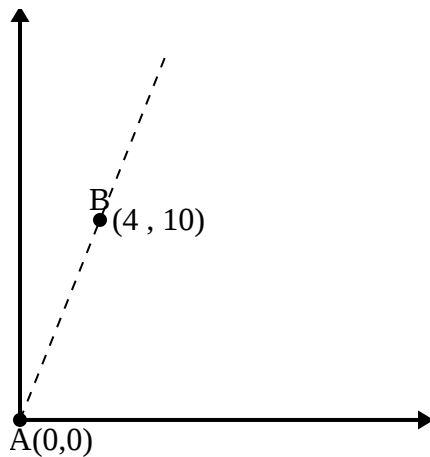




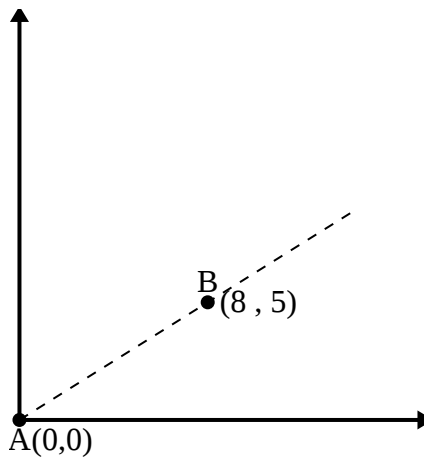
Use the law of Cosines to find the point B's angle relative to point A.

Answers

1)



2)



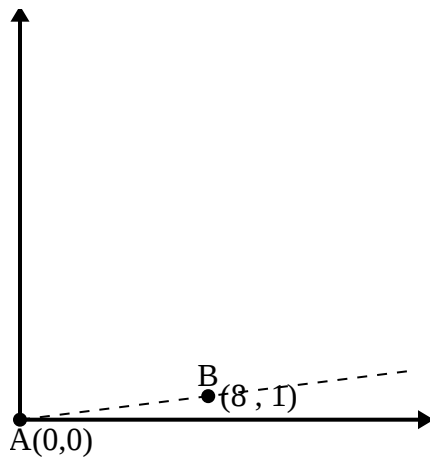
1. _____

2. _____

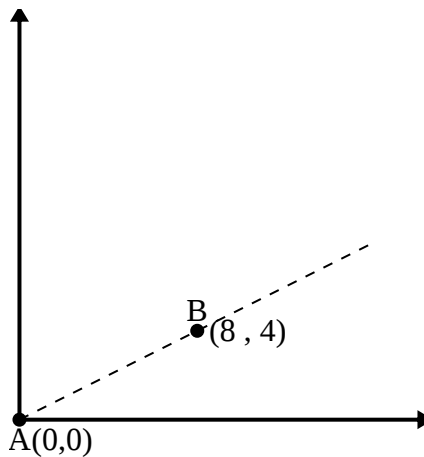
3. _____

4. _____

3)

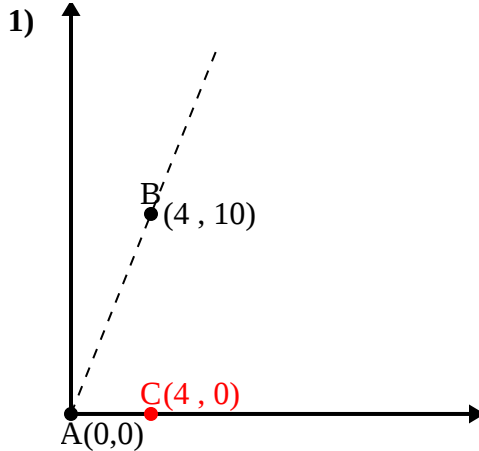


4)





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

Answers

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

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

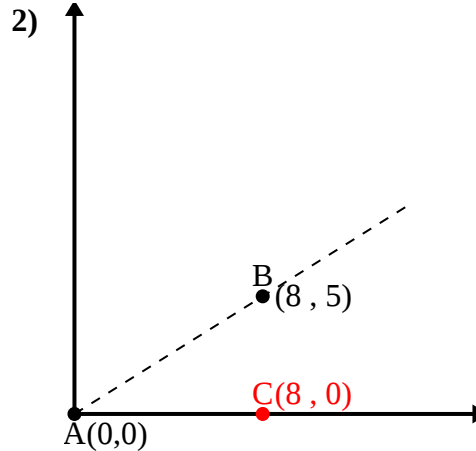
$$\overline{BC} \text{ length} = 10$$

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

$$0.37$$

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

$$68.2^\circ$$



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

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

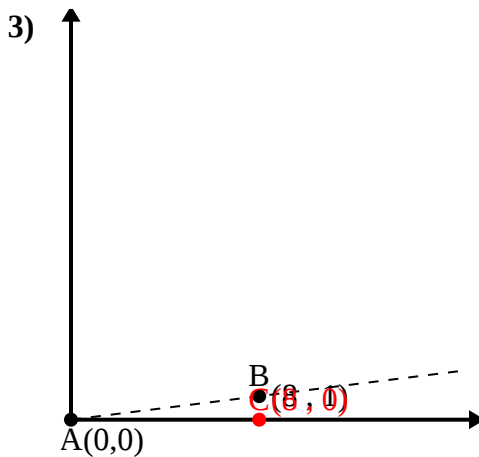
$$\overline{BC} \text{ length} = 5$$

$$(89 + 64 + 25) \div (2 \times 9.43 \times 8)$$

$$0.85$$

$$\cos^{-1}(0.85)$$

$$32.01^\circ$$



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

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

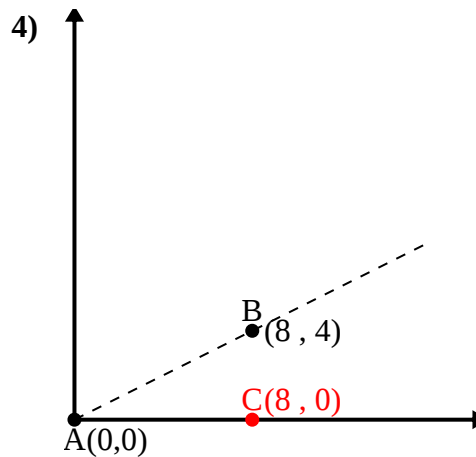
$$\overline{BC} \text{ length} = 1$$

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

$$0.99$$

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

$$7.13^\circ$$



$$\overline{AB} \text{ length} = 8.94$$

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

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

$$(80 + 64 + 16) \div (2 \times 8.94 \times 8)$$

$$0.89$$

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

$$26.57^\circ$$

1. **68.2°**
2. **32.01°**
3. **7.13°**
4. **26.57°**