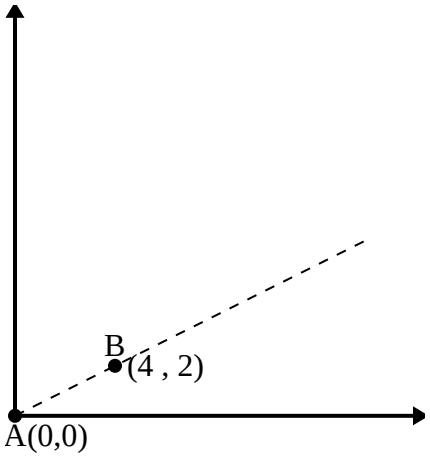
Aplicación de la ley de los cosenos Nombre:

Utilice la ley de los cosenos para encontrar el ángulo del punto B con respecto al punto A.

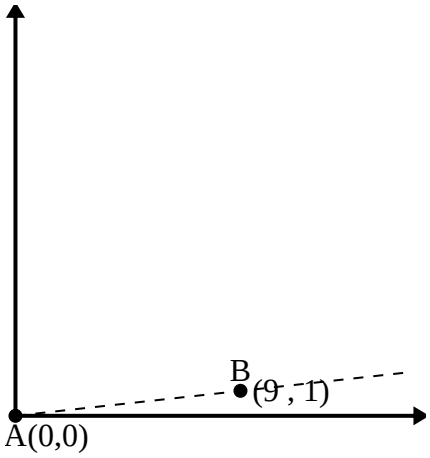
Respuestas

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

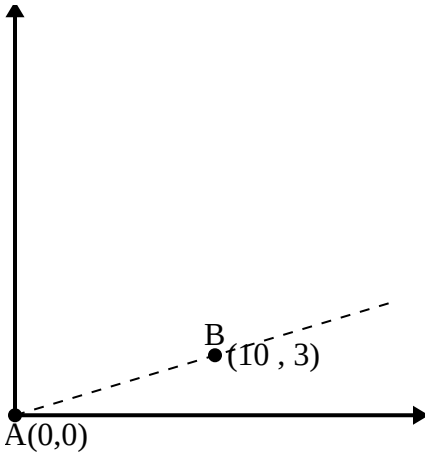
1)



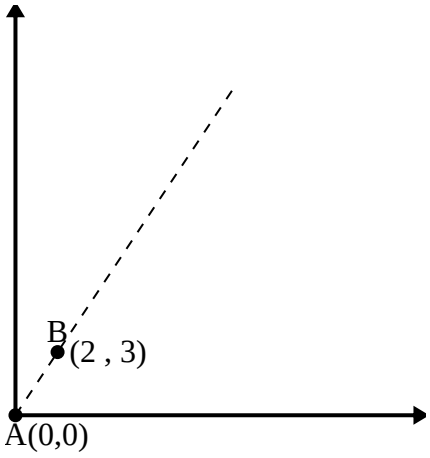
2)



3)

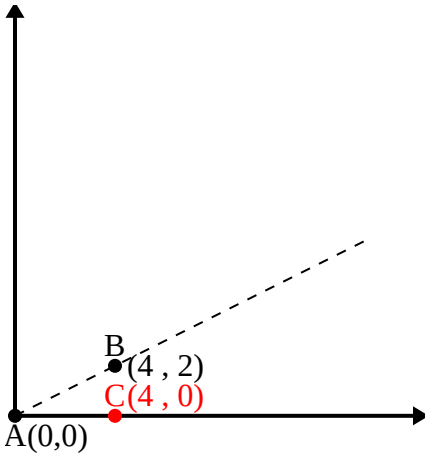


4)



Utilice la ley de los cosenos para encontrar el ángulo del punto B con respecto al punto A.

1)



$\overline{AB}$ length = 4.47

$\overline{AC}$ length = 4

$\overline{BC}$ length = 2

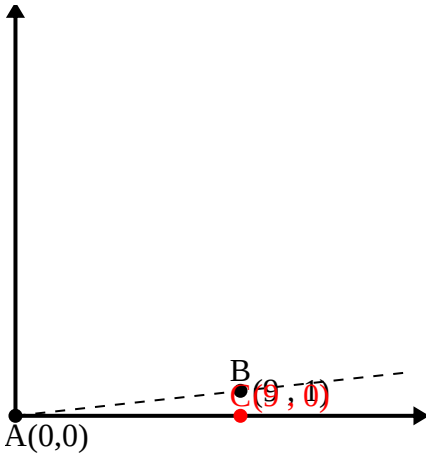
(20 + 16 + 4) ÷ (2 × 4.47 × 4)

0.89

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

26.57°

2)



$\overline{AB}$ length = 9.06

$\overline{AC}$ length = 9

$\overline{BC}$ length = 1

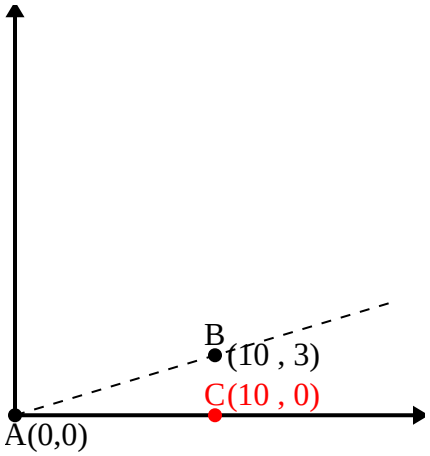
(82 + 81 + 1) ÷ (2 × 9.06 × 9)

0.99

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

6.34°

3)



$\overline{AB}$ length = 10.44

$\overline{AC}$ length = 10

$\overline{BC}$ length = 3

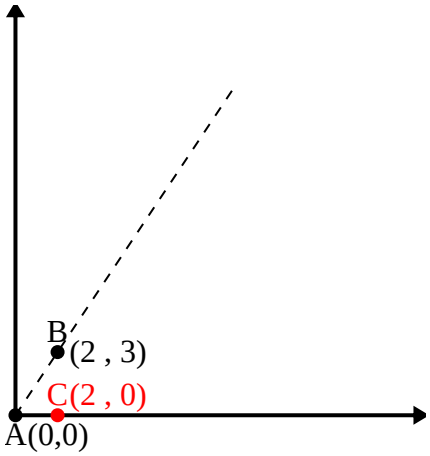
(109 + 100 + 9) ÷ (2 × 10.44 × 10)

0.96

$\cos^{-1}(0.96)$

16.7°

4)



$\overline{AB}$ length = 3.61

$\overline{AC}$ length = 2

$\overline{BC}$ length = 3

(13 + 4 + 9) ÷ (2 × 3.61 × 2)

0.55

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

56.31°

Respuestas

1. **26.57°**
2. **6.34°**
3. **16.7°**
4. **56.31°**