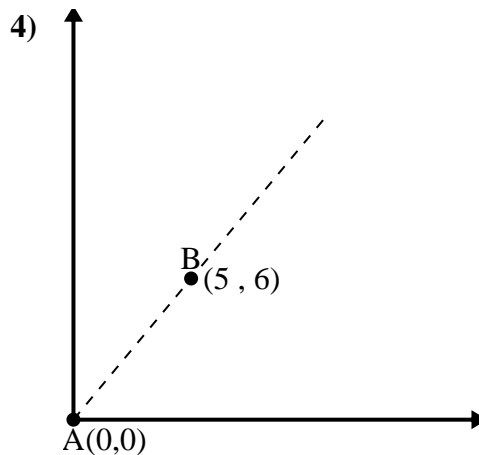
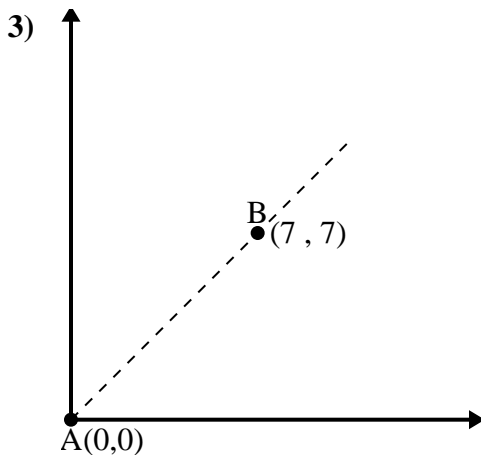
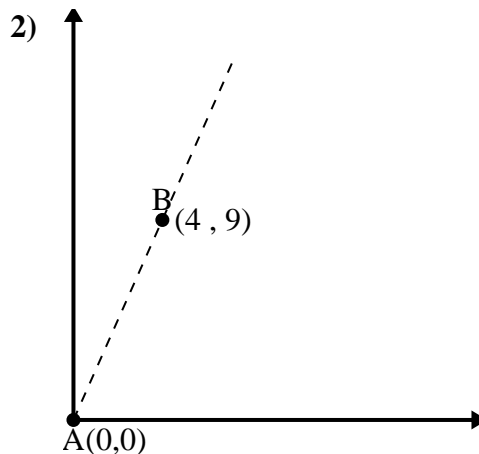
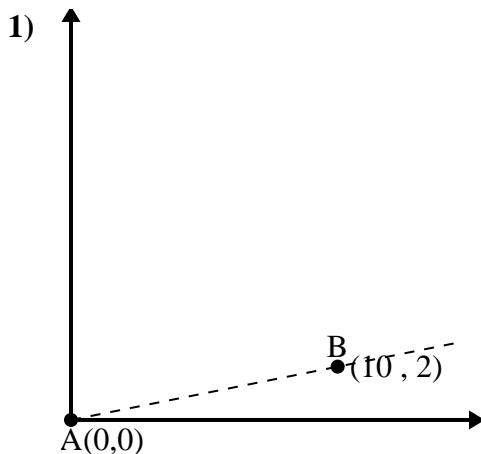




Use the law of Cosines to find the point B's angle relative to point A.

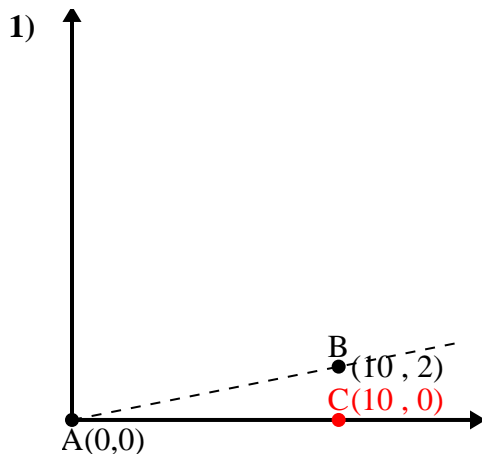
Answers



- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_



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

Answers

$\overline{AB}$  length = 10.2

$\overline{AC}$  length = 10

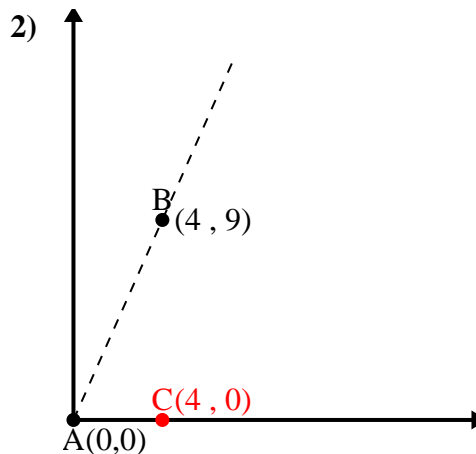
$\overline{BC}$  length = 2

$(104 + 100 + 4) \div (2 \times 10.2 \times 10)$

0.98

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

$11.31^\circ$



$\overline{AB}$  length = 9.85

$\overline{AC}$  length = 4

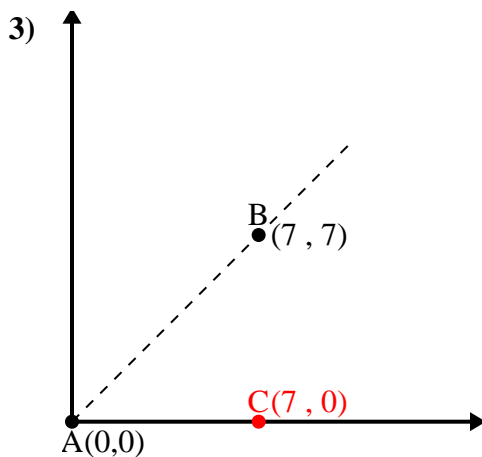
$\overline{BC}$  length = 9

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

0.41

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

$66.04^\circ$



$\overline{AB}$  length = 9.9

$\overline{AC}$  length = 7

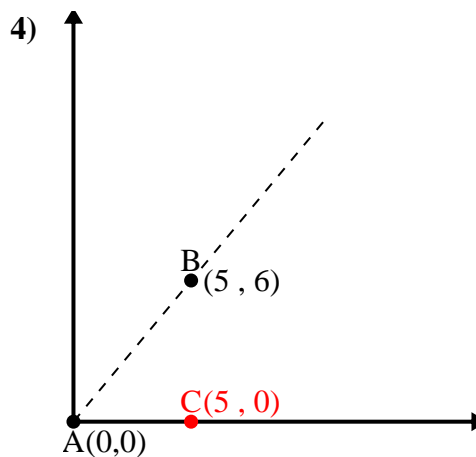
$\overline{BC}$  length = 7

$(98 + 49 + 49) \div (2 \times 9.9 \times 7)$

0.71

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

$45^\circ$



$\overline{AB}$  length = 7.81

$\overline{AC}$  length = 5

$\overline{BC}$  length = 6

$(61 + 25 + 36) \div (2 \times 7.81 \times 5)$

0.64

$\cos^{-1}(0.64)$

$50.19^\circ$

1.  $11.31^\circ$

2.  $66.04^\circ$

3.  $45^\circ$

4.  $50.19^\circ$