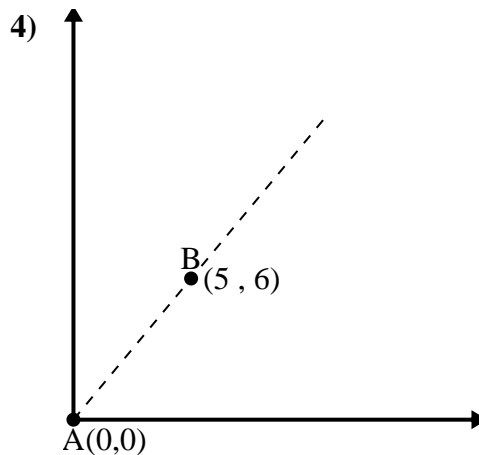
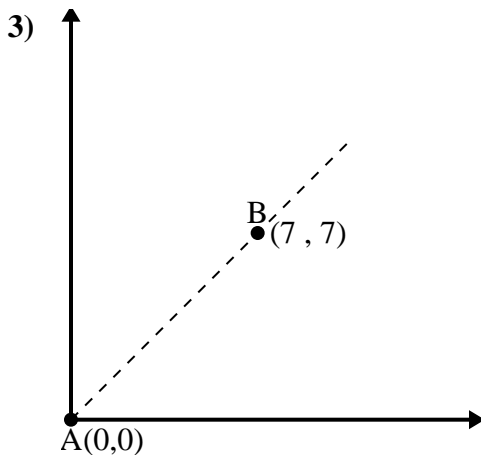
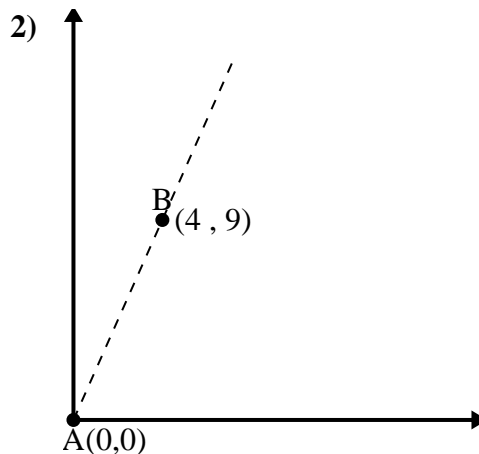
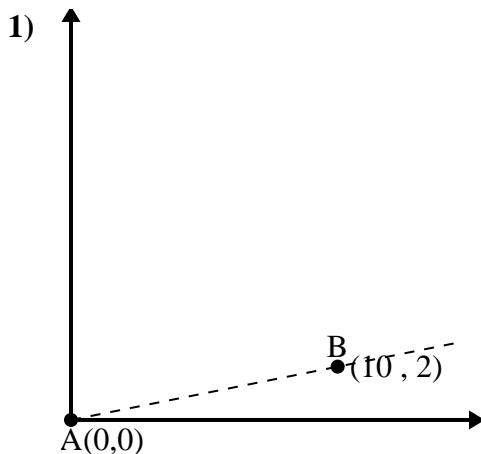




Use the law of Cosines to find the point B's angle relative to point A.

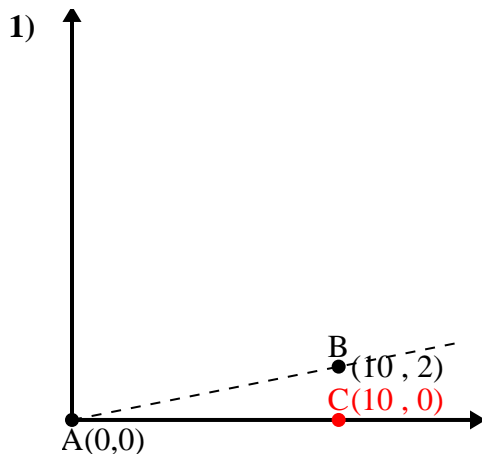
Answers



- 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

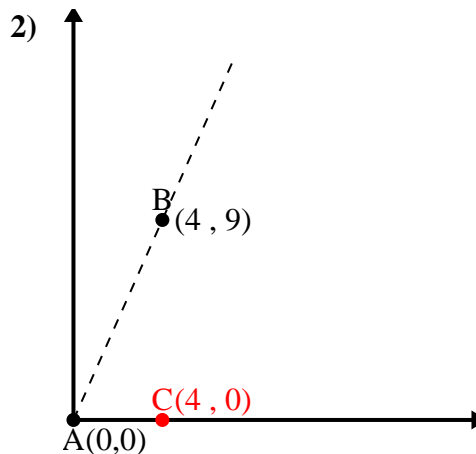
\overline{BC} length = 2

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

0.98

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

11.31°



\overline{AB} length = 9.85

\overline{AC} length = 4

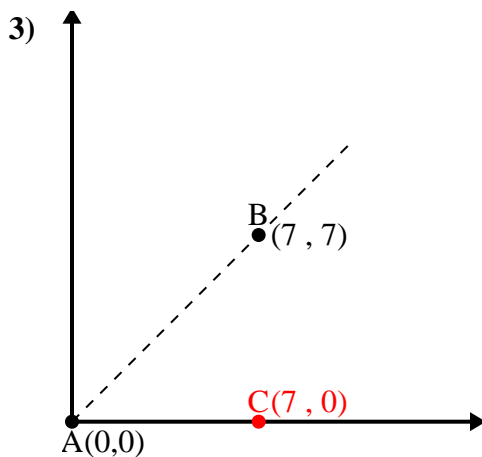
\overline{BC} length = 9

$(9^2 + 16 + 81) \div (2 \times 9.85 \times 4)$

0.41

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

66.04°



\overline{AB} length = 9.9

\overline{AC} length = 7

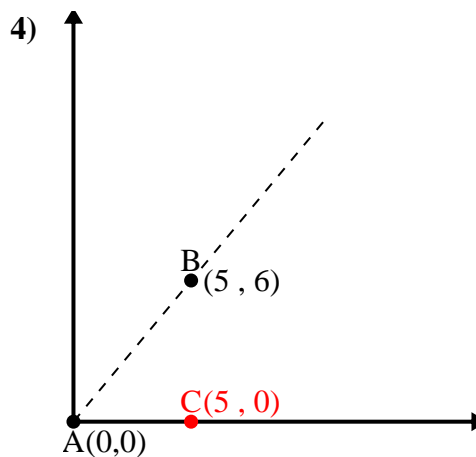
\overline{BC} length = 7

$(9^2 + 49 + 49) \div (2 \times 9.9 \times 7)$

0.71

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

45°



\overline{AB} length = 7.81

\overline{AC} length = 5

\overline{BC} length = 6

$(6^2 + 25 + 36) \div (2 \times 7.81 \times 5)$

0.64

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

50.19°

1. 11.31°

2. 66.04°

3. 45°

4. 50.19°