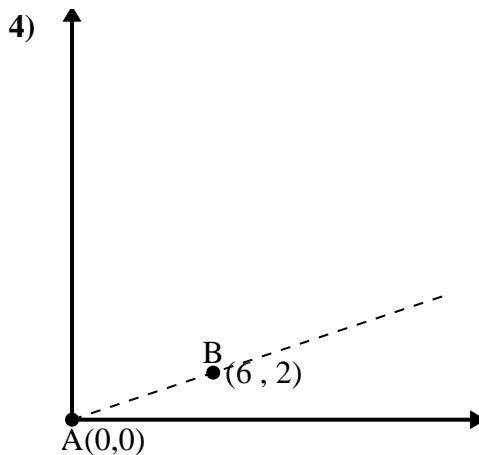
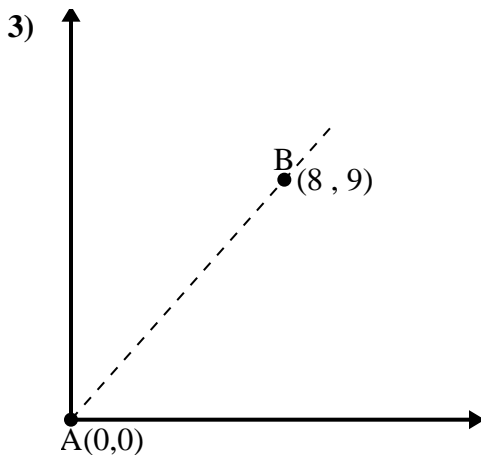
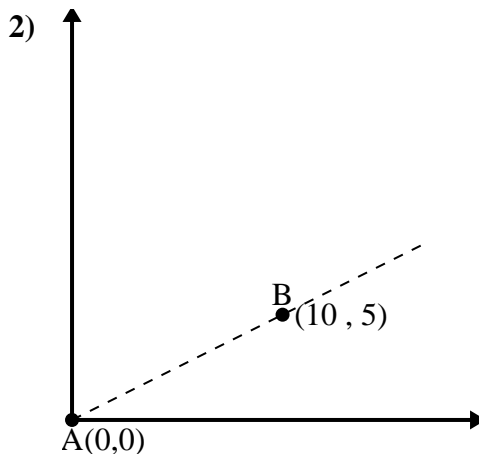
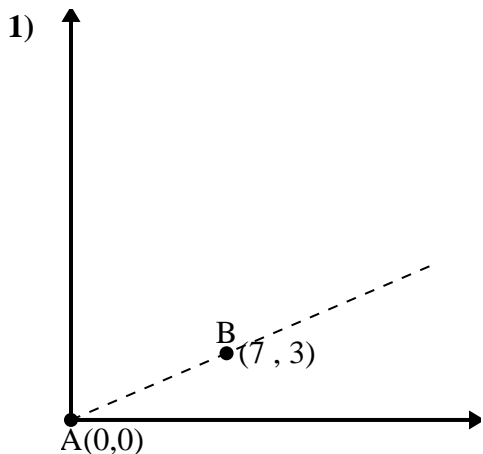




Use the law of Cosines to find the point B's angle relative to point A.

Answers

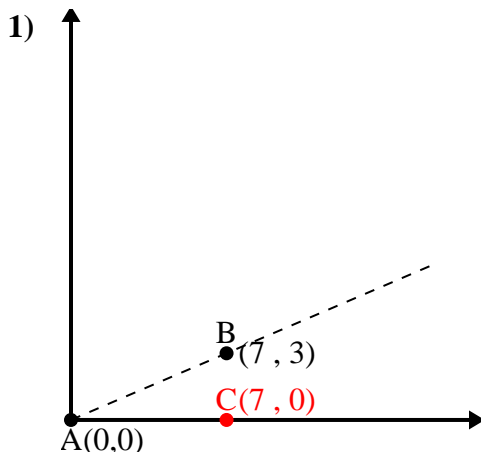


- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_



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

Answers



$\overline{AB}$  length = 7.62

$\overline{AC}$  length = 7

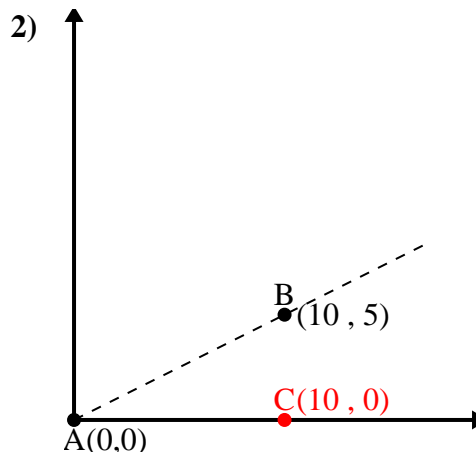
$\overline{BC}$  length = 3

$(58 + 49 + 9) \div (2 \times 7.62 \times 7)$

0.92

$\cos^{-1}(0.92)$

$23.2^\circ$



$\overline{AB}$  length = 11.18

$\overline{AC}$  length = 10

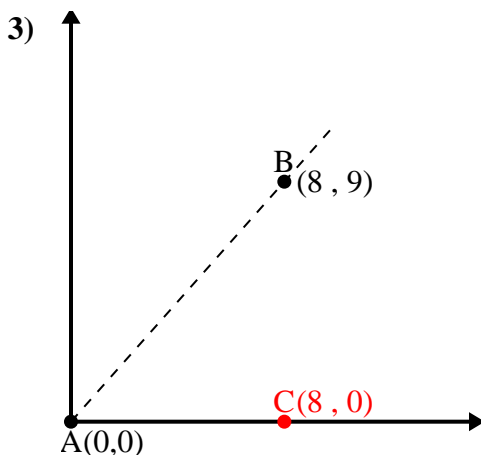
$\overline{BC}$  length = 5

$(125 + 100 + 25) \div (2 \times 11.18 \times 10)$

0.89

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

$26.57^\circ$



$\overline{AB}$  length = 12.04

$\overline{AC}$  length = 8

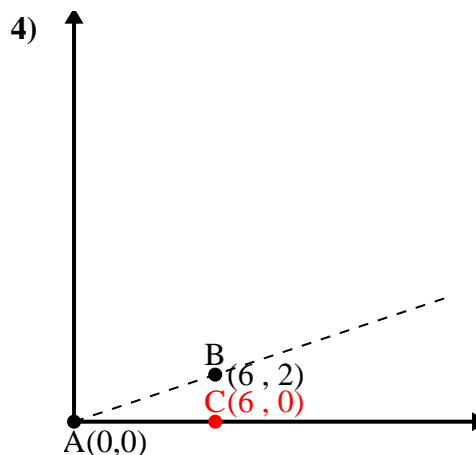
$\overline{BC}$  length = 9

$(145 + 64 + 81) \div (2 \times 12.04 \times 8)$

0.66

$\cos^{-1}(0.66)$

$48.37^\circ$



$\overline{AB}$  length = 6.32

$\overline{AC}$  length = 6

$\overline{BC}$  length = 2

$(40 + 36 + 4) \div (2 \times 6.32 \times 6)$

0.95

$\cos^{-1}(0.95)$

$18.43^\circ$

1.  $23.2^\circ$

2.  $26.57^\circ$

3.  $48.37^\circ$

4.  $18.43^\circ$