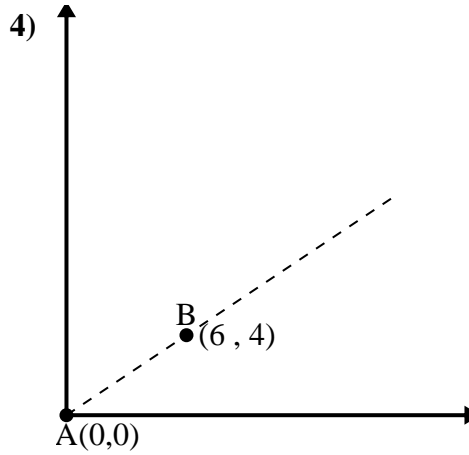
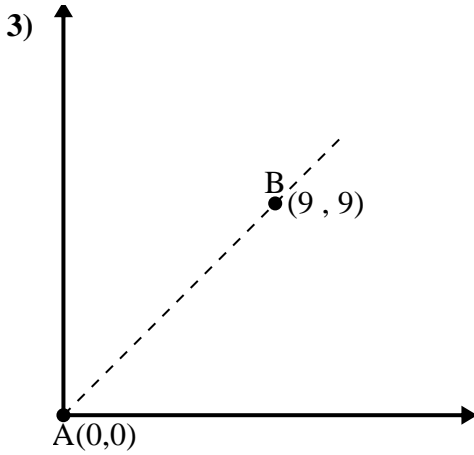
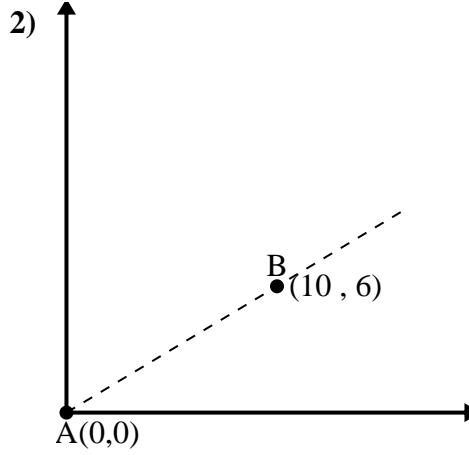
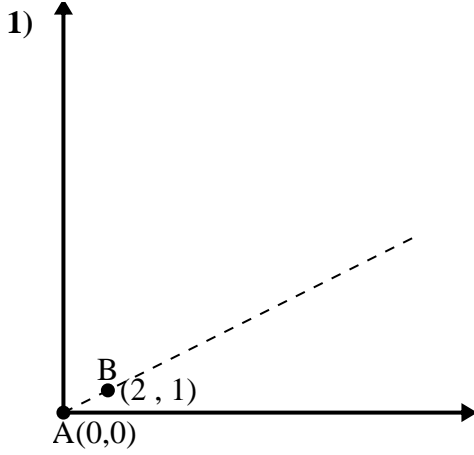




Use the law of Cosines to find the point B's angle relative to point A.



Answers

1. \_\_\_\_\_

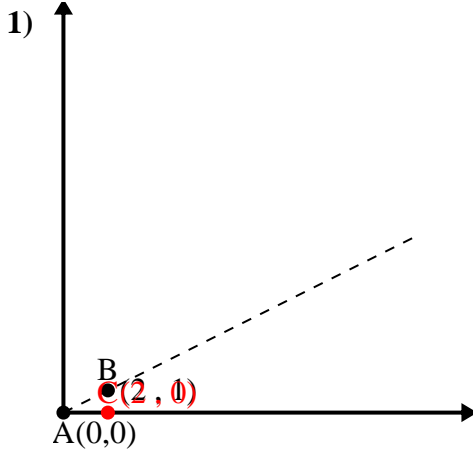
2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_



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



$$\overline{AB} \text{ length} = 2.24$$

$$\overline{AC} \text{ length} = 2$$

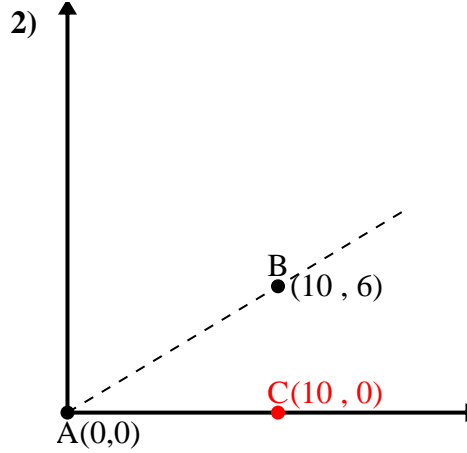
$$\overline{BC} \text{ length} = 1$$

$$(5 + 4 + 1) \div (2 \times 2.24 \times 2)$$

$$0.89$$

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

$$26.57^\circ$$



$$\overline{AB} \text{ length} = 11.66$$

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

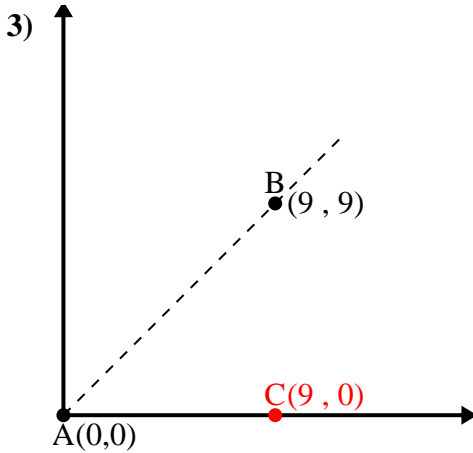
$$\overline{BC} \text{ length} = 6$$

$$(136 + 100 + 36) \div (2 \times 11.66 \times 10)$$

$$0.86$$

$$\cos^{-1}(0.86)$$

$$30.96^\circ$$



$$\overline{AB} \text{ length} = 12.73$$

$$\overline{AC} \text{ length} = 9$$

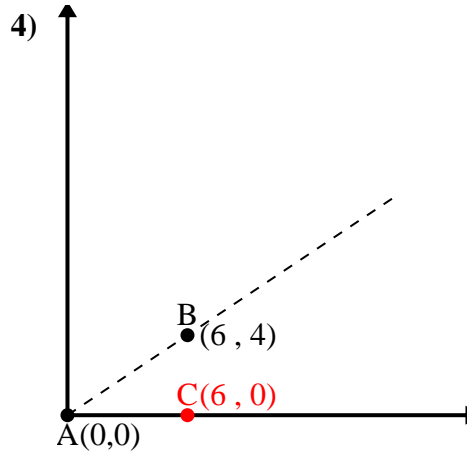
$$\overline{BC} \text{ length} = 9$$

$$(162 + 81 + 81) \div (2 \times 12.73 \times 9)$$

$$0.71$$

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

$$45^\circ$$



$$\overline{AB} \text{ length} = 7.21$$

$$\overline{AC} \text{ length} = 6$$

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

$$(52 + 36 + 16) \div (2 \times 7.21 \times 6)$$

$$0.83$$

$$\cos^{-1}(0.83)$$

$$33.69^\circ$$

Answers

1. 26.57°

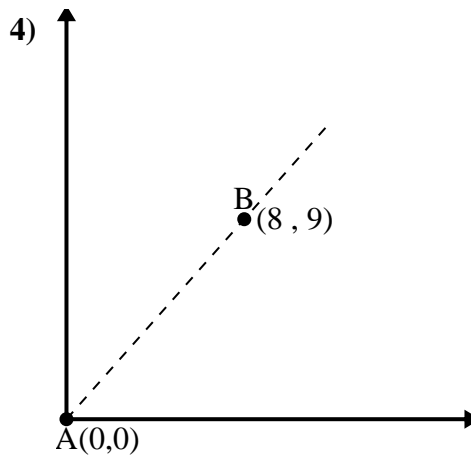
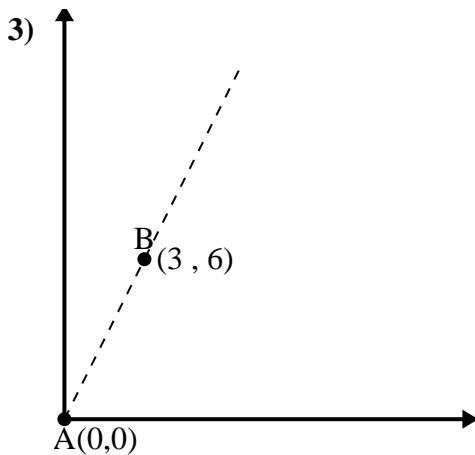
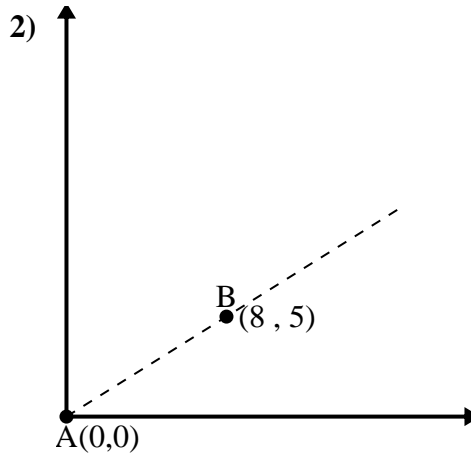
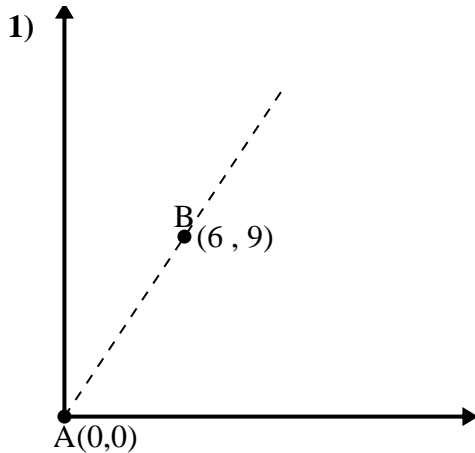
2. 30.96°

3. 45°

4. 33.69°



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

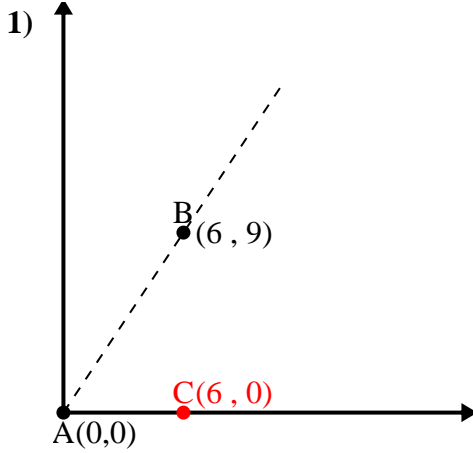


Answers

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



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



$$\overline{AB} \text{ length} = 10.82$$

$$\overline{AC} \text{ length} = 6$$

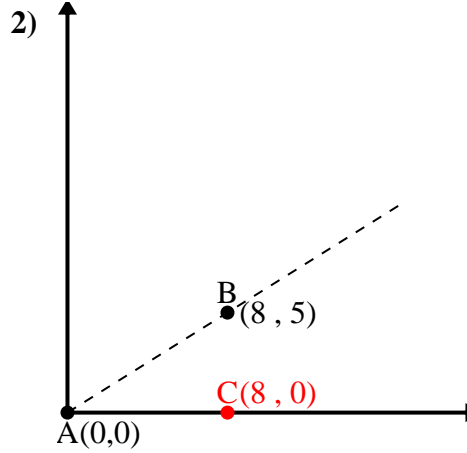
$$\overline{BC} \text{ length} = 9$$

$$(117 + 36 + 81) \div (2 \times 10.82 \times 6)$$

$$0.55$$

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

$$56.31^\circ$$



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

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

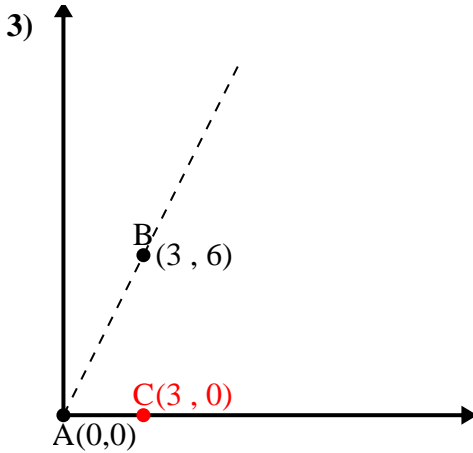
$$\overline{BC} \text{ length} = 5$$

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

$$0.85$$

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

$$32.01^\circ$$



$$\overline{AB} \text{ length} = 6.71$$

$$\overline{AC} \text{ length} = 3$$

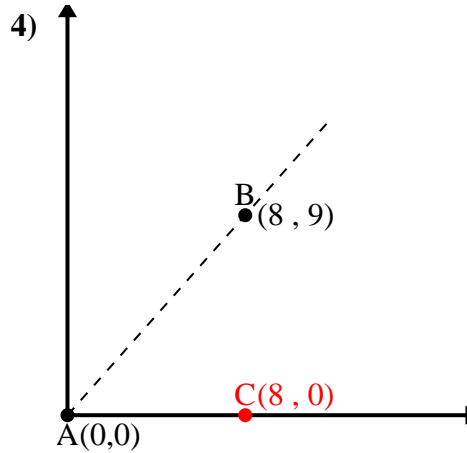
$$\overline{BC} \text{ length} = 6$$

$$(45 + 9 + 36) \div (2 \times 6.71 \times 3)$$

$$0.45$$

$$\cos^{-1}(0.45)$$

$$63.43^\circ$$



$$\overline{AB} \text{ length} = 12.04$$

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

$$\overline{BC} \text{ length} = 9$$

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

$$0.66$$

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

$$48.37^\circ$$

Answers

1. 56.31°

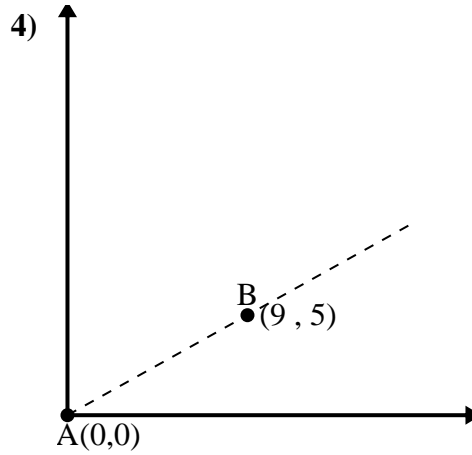
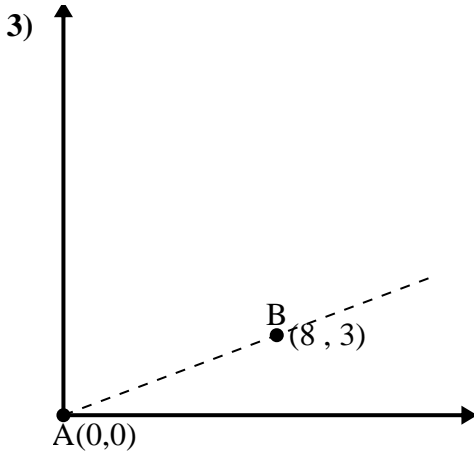
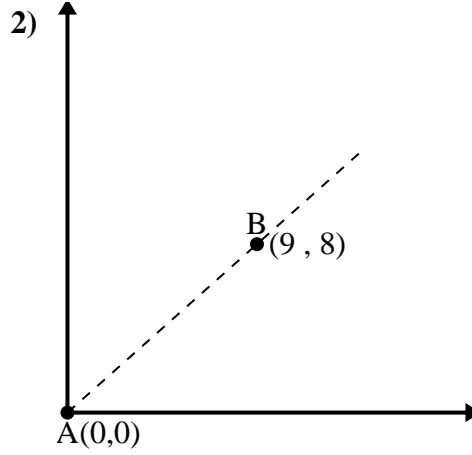
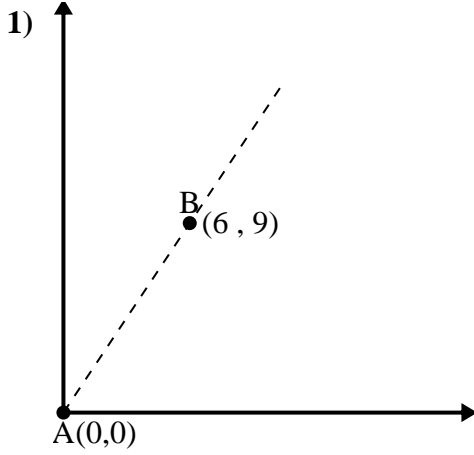
2. 32.01°

3. 63.43°

4. 48.37°



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



Answers

1. \_\_\_\_\_

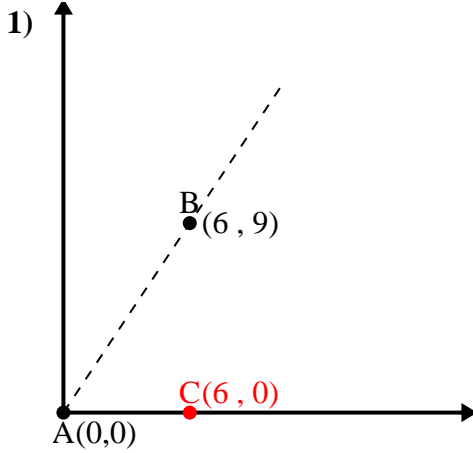
2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_



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



$$\overline{AB} \text{ length} = 10.82$$

$$\overline{AC} \text{ length} = 6$$

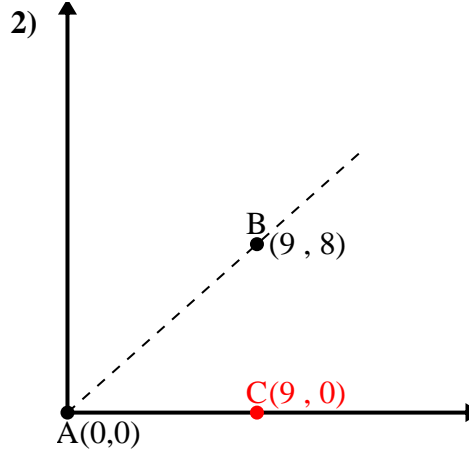
$$\overline{BC} \text{ length} = 9$$

$$(117 + 36 + 81) \div (2 \times 10.82 \times 6)$$

$$0.55$$

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

$$56.31^\circ$$



$$\overline{AB} \text{ length} = 12.04$$

$$\overline{AC} \text{ length} = 9$$

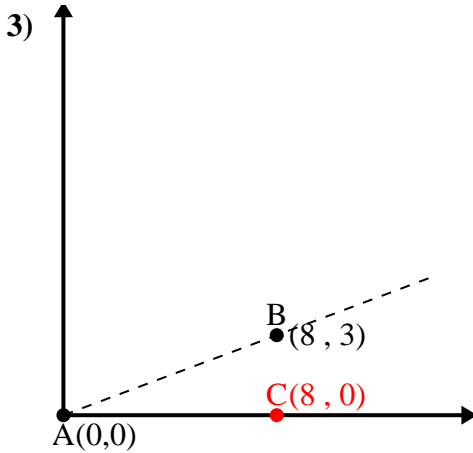
$$\overline{BC} \text{ length} = 8$$

$$(145 + 81 + 64) \div (2 \times 12.04 \times 9)$$

$$0.75$$

$$\cos^{-1}(0.75)$$

$$41.63^\circ$$



$$\overline{AB} \text{ length} = 8.54$$

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

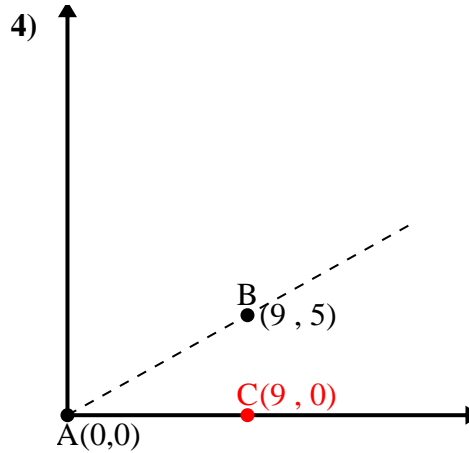
$$\overline{BC} \text{ length} = 3$$

$$(73 + 64 + 9) \div (2 \times 8.54 \times 8)$$

$$0.94$$

$$\cos^{-1}(0.94)$$

$$20.56^\circ$$



$$\overline{AB} \text{ length} = 10.3$$

$$\overline{AC} \text{ length} = 9$$

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

$$(106 + 81 + 25) \div (2 \times 10.3 \times 9)$$

$$0.87$$

$$\cos^{-1}(0.87)$$

$$29.05^\circ$$

Answers

1. 56.31°

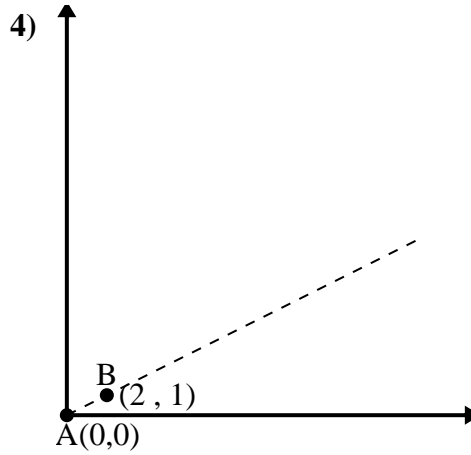
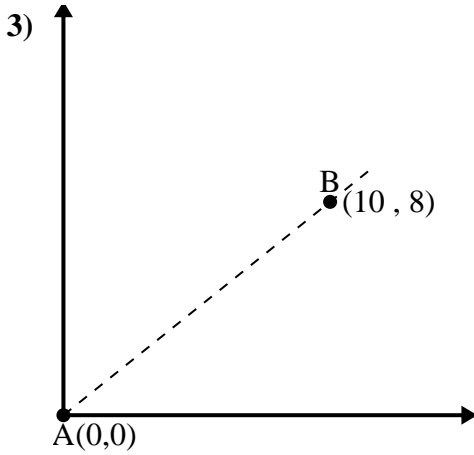
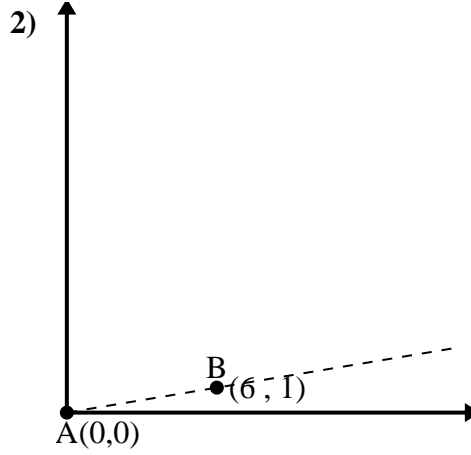
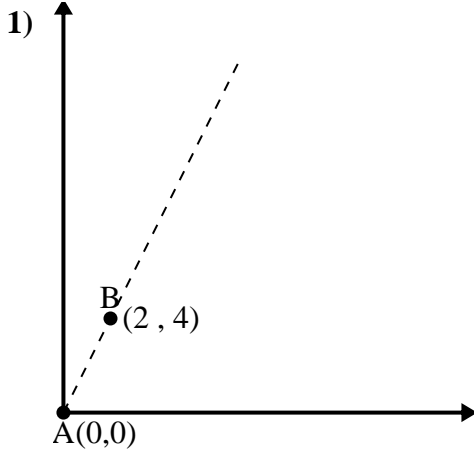
2. 41.63°

3. 20.56°

4. 29.05°



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



Answers

1. \_\_\_\_\_

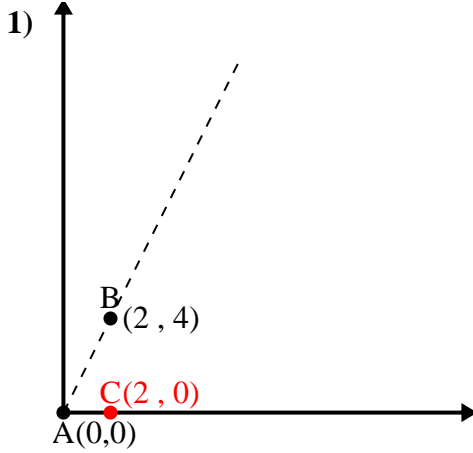
2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_



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



$$\overline{AB} \text{ length} = 4.47$$

$$\overline{AC} \text{ length} = 2$$

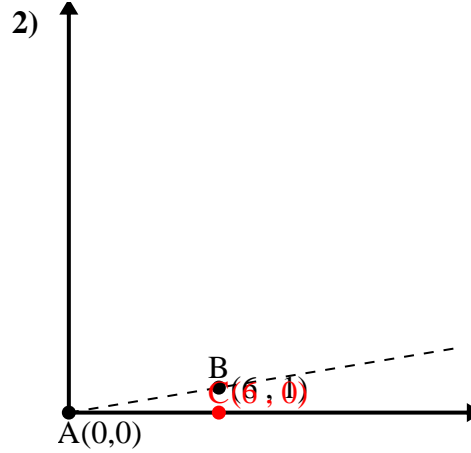
$$\overline{BC} \text{ length} = 4$$

$$(20 + 4 + 16) \div (2 \times 4.47 \times 2)$$

$$0.45$$

$$\cos^{-1}(0.45)$$

$$63.43^\circ$$



$$\overline{AB} \text{ length} = 6.08$$

$$\overline{AC} \text{ length} = 6$$

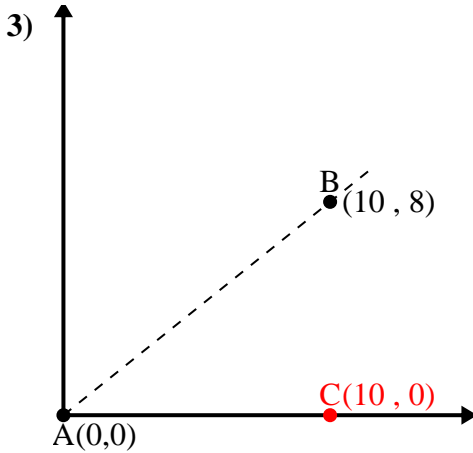
$$\overline{BC} \text{ length} = 1$$

$$(37 + 36 + 1) \div (2 \times 6.08 \times 6)$$

$$0.99$$

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

$$9.46^\circ$$



$$\overline{AB} \text{ length} = 12.81$$

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

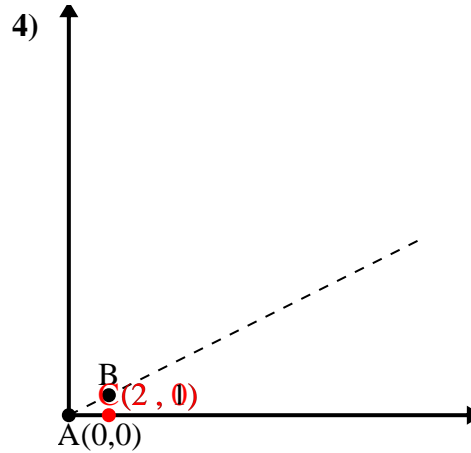
$$\overline{BC} \text{ length} = 8$$

$$(164 + 100 + 64) \div (2 \times 12.81 \times 10)$$

$$0.78$$

$$\cos^{-1}(0.78)$$

$$38.66^\circ$$



$$\overline{AB} \text{ length} = 2.24$$

$$\overline{AC} \text{ length} = 2$$

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

$$(5 + 4 + 1) \div (2 \times 2.24 \times 2)$$

$$0.89$$

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

$$26.57^\circ$$

Answers

1. 63.43°

2. 9.46°

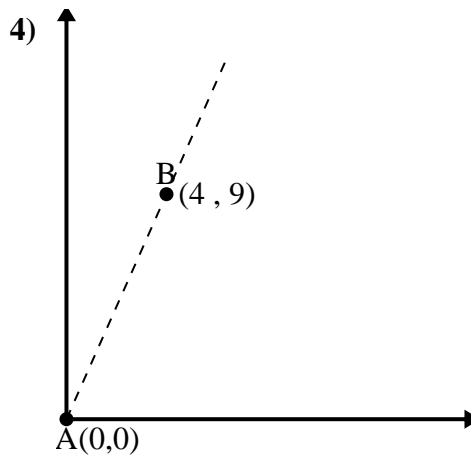
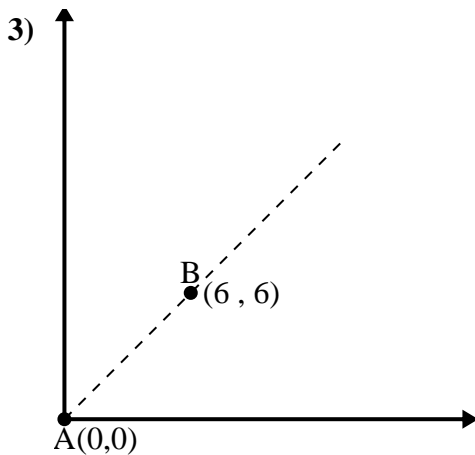
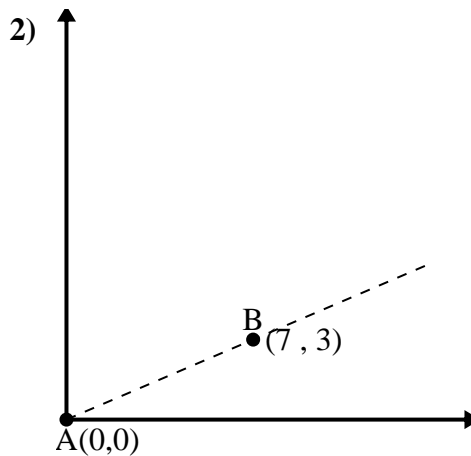
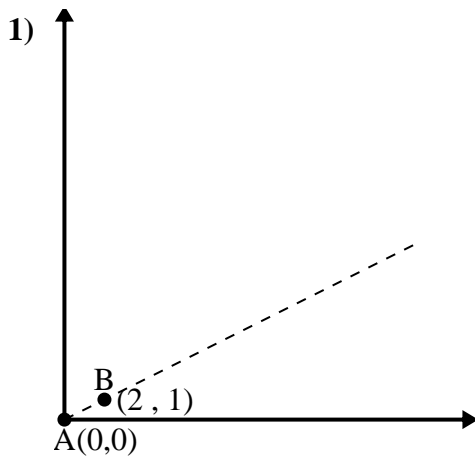
3. 38.66°

4. 26.57°





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



Answers

1. \_\_\_\_\_

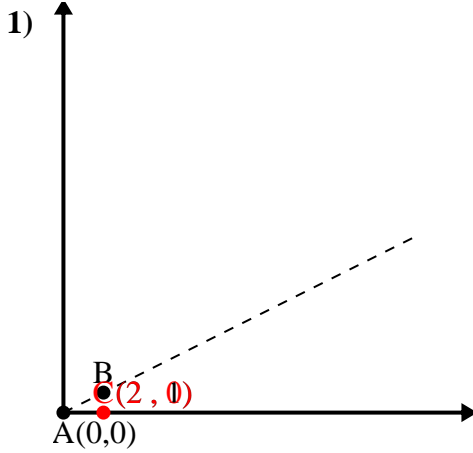
2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_



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



$\overline{AB}$  length = 2.24

$\overline{AC}$  length = 2

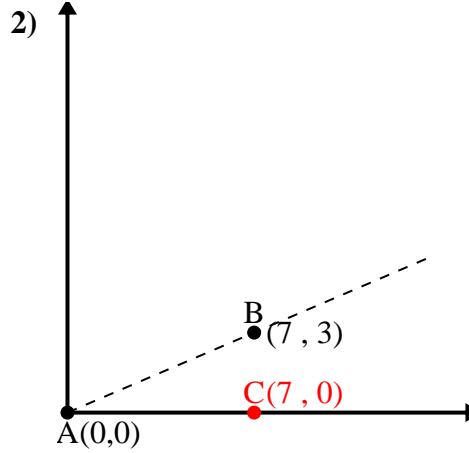
$\overline{BC}$  length = 1

$(5 + 4 + 1) \div (2 \times 2.24 \times 2)$

0.89

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

$26.57^\circ$



$\overline{AB}$  length = 7.62

$\overline{AC}$  length = 7

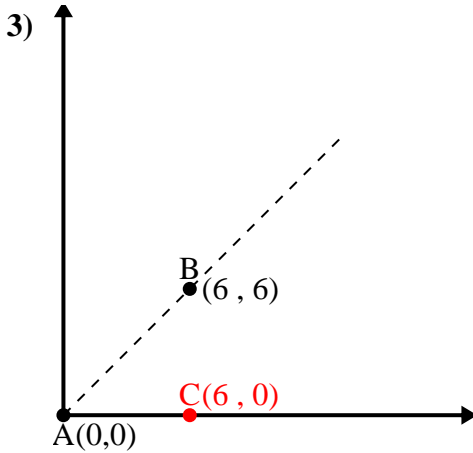
$\overline{BC}$  length = 3

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

0.92

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

$23.2^\circ$



$\overline{AB}$  length = 8.49

$\overline{AC}$  length = 6

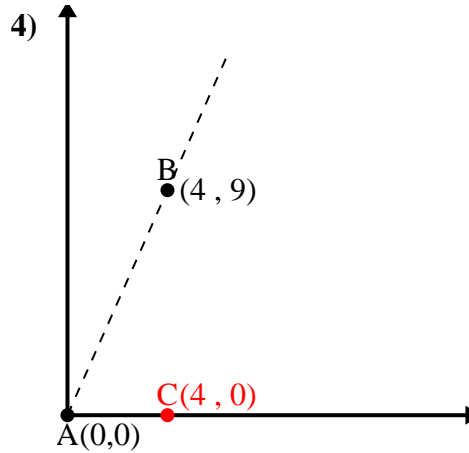
$\overline{BC}$  length = 6

$(72 + 36 + 36) \div (2 \times 8.49 \times 6)$

0.71

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

$45^\circ$



$\overline{AB}$  length = 9.85

$\overline{AC}$  length = 4

$\overline{BC}$  length = 9

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

0.41

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

$66.04^\circ$

Answers

1.  $26.57^\circ$

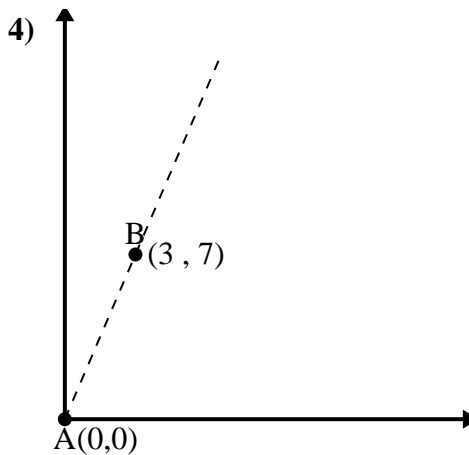
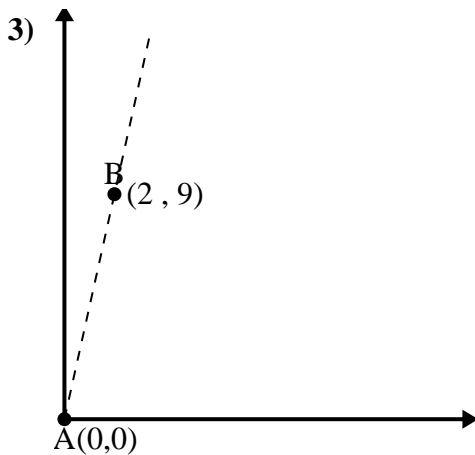
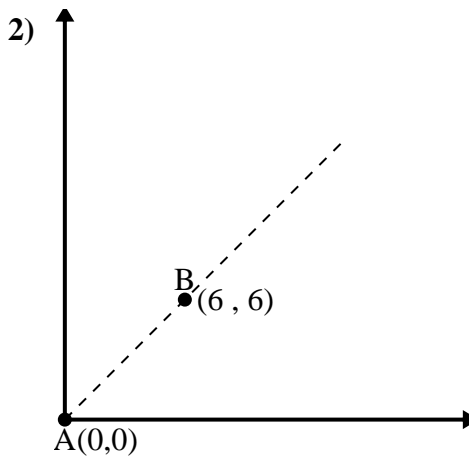
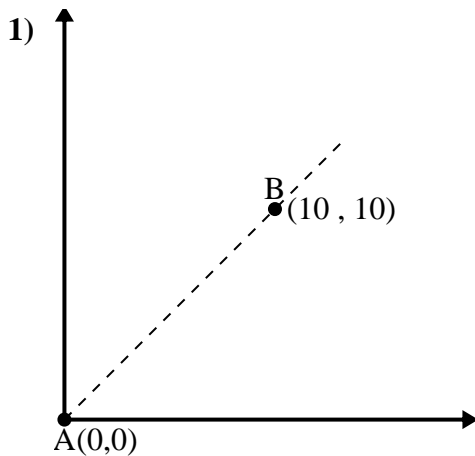
2.  $23.2^\circ$

3.  $45^\circ$

4.  $66.04^\circ$



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



Answers

1. \_\_\_\_\_

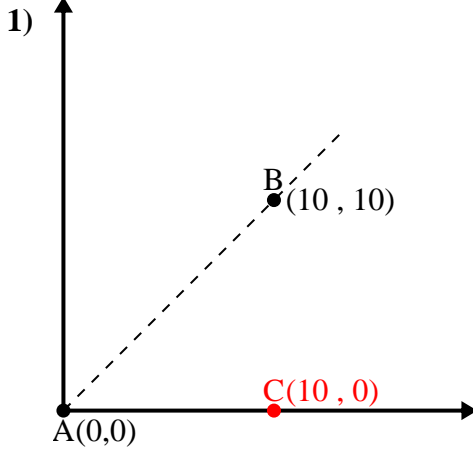
2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_



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



$$\overline{AB} \text{ length} = 14.14$$

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

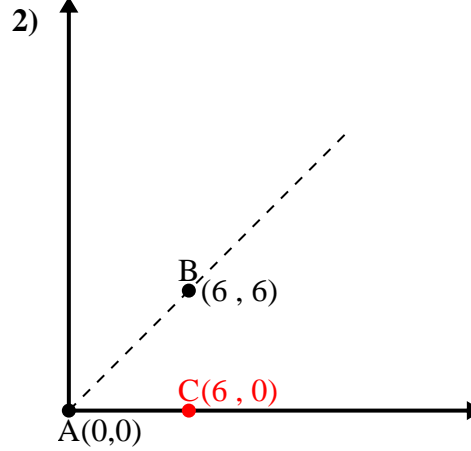
$$\overline{BC} \text{ length} = 10$$

$$(200 + 100 + 100) \div (2 \times 14.14 \times 10)$$

$$0.71$$

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

$$45^\circ$$



$$\overline{AB} \text{ length} = 8.49$$

$$\overline{AC} \text{ length} = 6$$

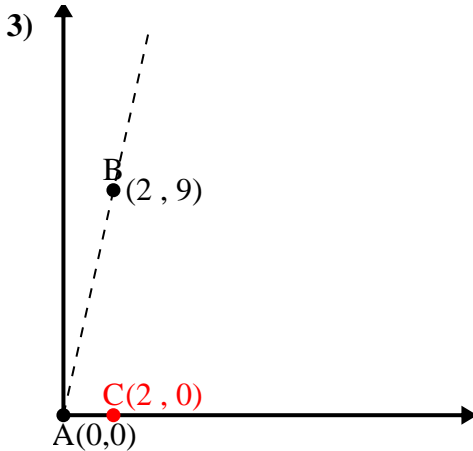
$$\overline{BC} \text{ length} = 6$$

$$(72 + 36 + 36) \div (2 \times 8.49 \times 6)$$

$$0.71$$

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

$$45^\circ$$



$$\overline{AB} \text{ length} = 9.22$$

$$\overline{AC} \text{ length} = 2$$

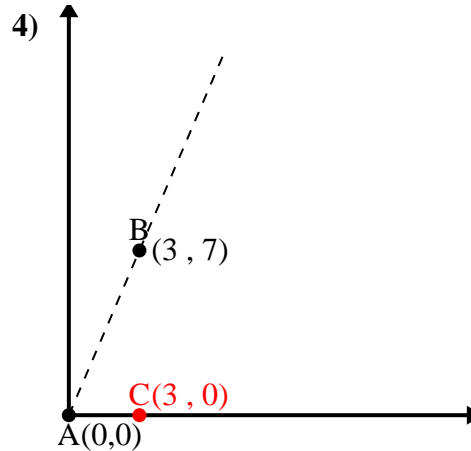
$$\overline{BC} \text{ length} = 9$$

$$(85 + 4 + 81) \div (2 \times 9.22 \times 2)$$

$$0.22$$

$$\cos^{-1}(0.22)$$

$$77.47^\circ$$



$$\overline{AB} \text{ length} = 7.62$$

$$\overline{AC} \text{ length} = 3$$

$$\overline{BC} \text{ length} = 7$$

$$(58 + 9 + 49) \div (2 \times 7.62 \times 3)$$

$$0.39$$

$$\cos^{-1}(0.39)$$

$$66.8^\circ$$

Answers

1. 45°

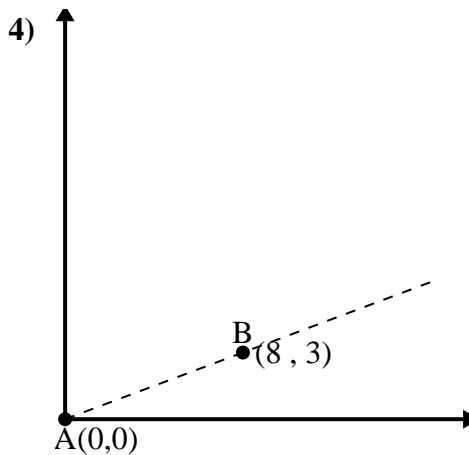
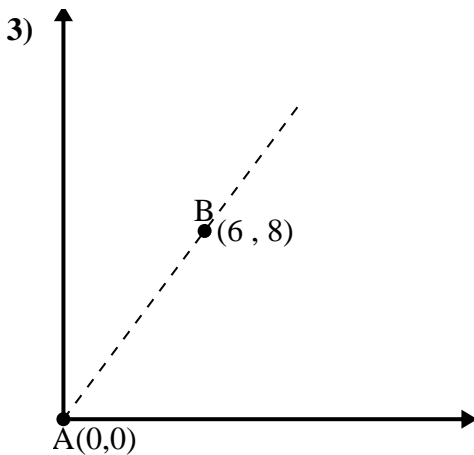
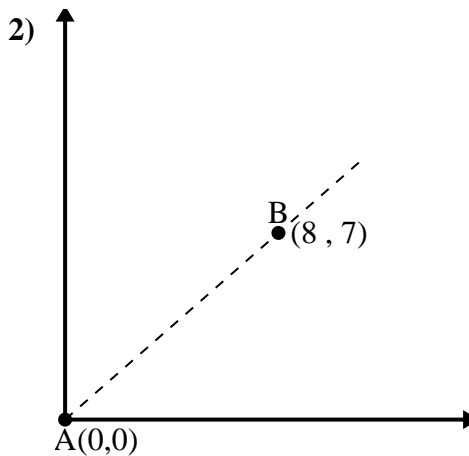
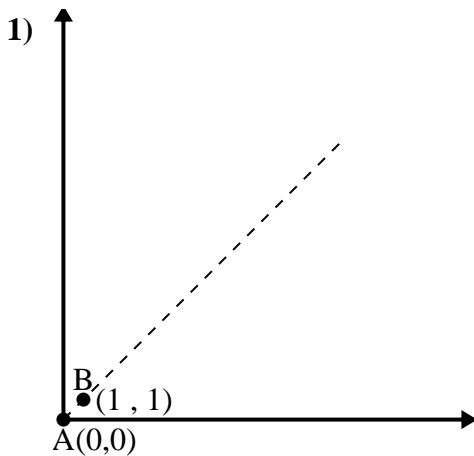
2. 45°

3. 77.47°

4. 66.8°



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



Answers

1. \_\_\_\_\_

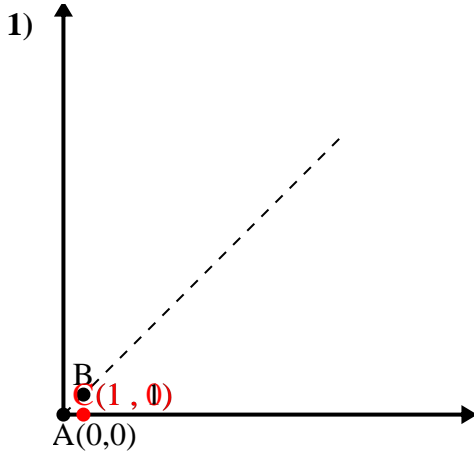
2. \_\_\_\_\_

3. \_\_\_\_\_

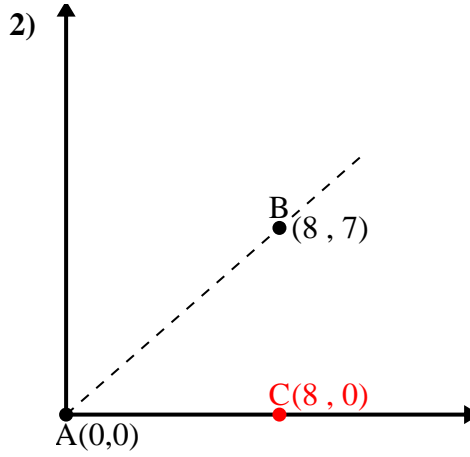
4. \_\_\_\_\_



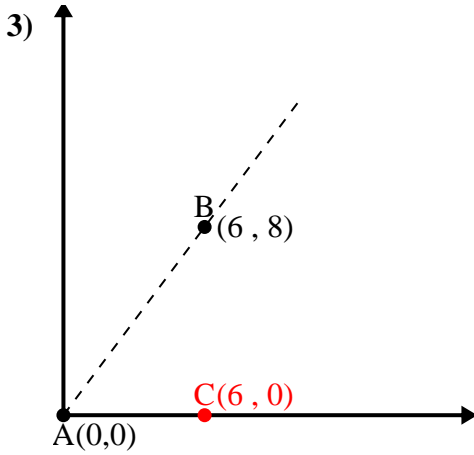
Use the law of Cosines to find the point B's angle relative to point A.



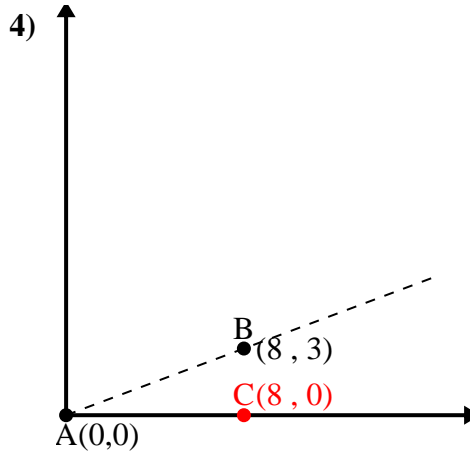
$$\begin{aligned} \overline{AB} \text{ length} &= 1.41 \\ \overline{AC} \text{ length} &= 1 \\ \overline{BC} \text{ length} &= 1 \\ (2 + 1 + 1) \div (2 \times 1.41 \times 1) \\ &= 0.71 \\ \cos^{-1}(0.71) \\ &= 45^\circ \end{aligned}$$



$$\begin{aligned} \overline{AB} \text{ length} &= 10.63 \\ \overline{AC} \text{ length} &= 8 \\ \overline{BC} \text{ length} &= 7 \\ (113 + 64 + 49) \div (2 \times 10.63 \times 8) \\ &= 0.75 \\ \cos^{-1}(0.75) \\ &= 41.19^\circ \end{aligned}$$



$$\begin{aligned} \overline{AB} \text{ length} &= 10 \\ \overline{AC} \text{ length} &= 6 \\ \overline{BC} \text{ length} &= 8 \\ (100 + 36 + 64) \div (2 \times 10 \times 6) \\ &= 0.6 \\ \cos^{-1}(0.6) \\ &= 53.13^\circ \end{aligned}$$



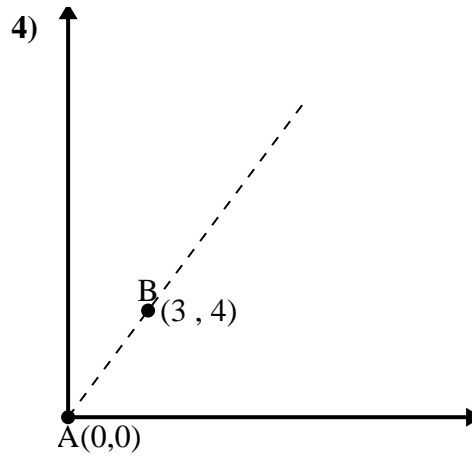
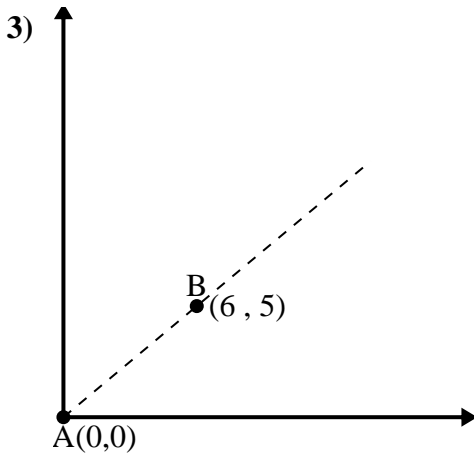
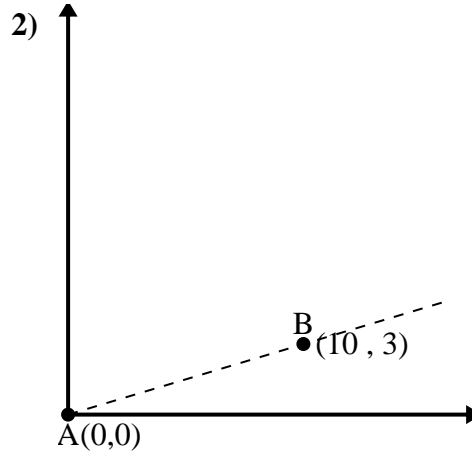
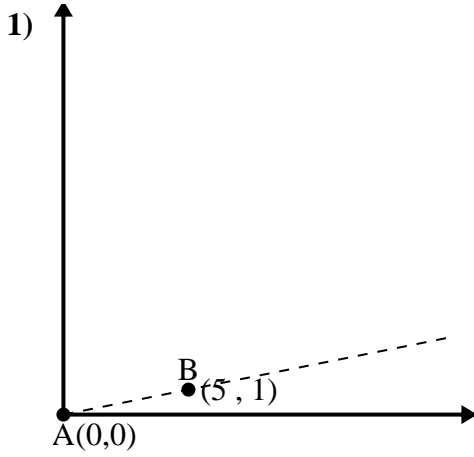
$$\begin{aligned} \overline{AB} \text{ length} &= 8.54 \\ \overline{AC} \text{ length} &= 8 \\ \overline{BC} \text{ length} &= 3 \\ (73 + 64 + 9) \div (2 \times 8.54 \times 8) \\ &= 0.94 \\ \cos^{-1}(0.94) \\ &= 20.56^\circ \end{aligned}$$

Answers

1. 45°
2. 41.19°
3. 53.13°
4. 20.56°



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



Answers

1. \_\_\_\_\_

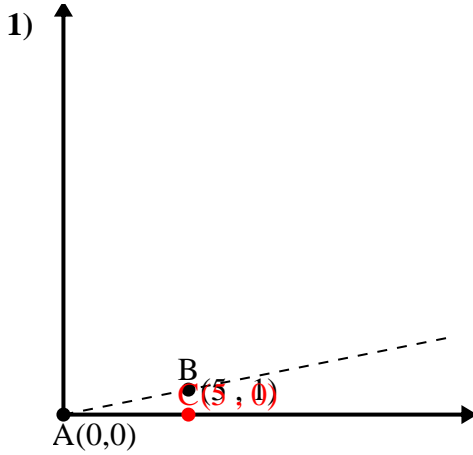
2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_



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



$$\overline{AB} \text{ length} = 5.1$$

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

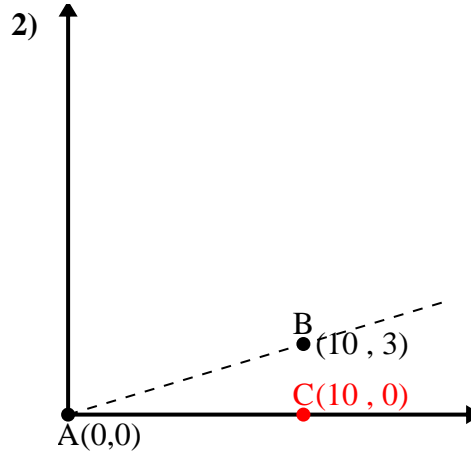
$$\overline{BC} \text{ length} = 1$$

$$(26 + 25 + 1) \div (2 \times 5.1 \times 5)$$

$$0.98$$

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

$$11.31^\circ$$



$$\overline{AB} \text{ length} = 10.44$$

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

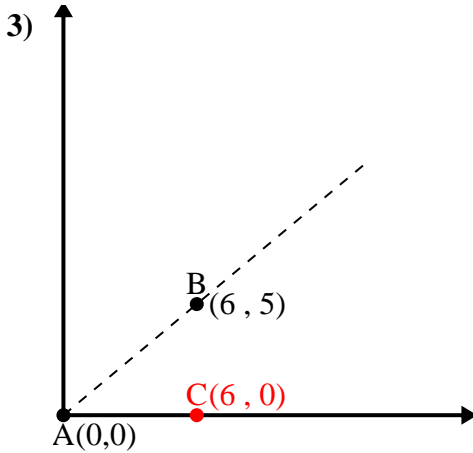
$$\overline{BC} \text{ length} = 3$$

$$(109 + 100 + 9) \div (2 \times 10.44 \times 10)$$

$$0.96$$

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

$$16.7^\circ$$



$$\overline{AB} \text{ length} = 7.81$$

$$\overline{AC} \text{ length} = 6$$

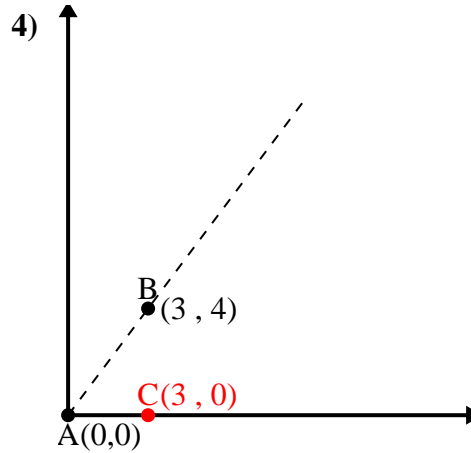
$$\overline{BC} \text{ length} = 5$$

$$(61 + 36 + 25) \div (2 \times 7.81 \times 6)$$

$$0.77$$

$$\cos^{-1}(0.77)$$

$$39.81^\circ$$



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

$$\overline{AC} \text{ length} = 3$$

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

$$(25 + 9 + 16) \div (2 \times 5 \times 3)$$

$$0.6$$

$$\cos^{-1}(0.6)$$

$$53.13^\circ$$

Answers

1. 11.31°

2. 16.7°

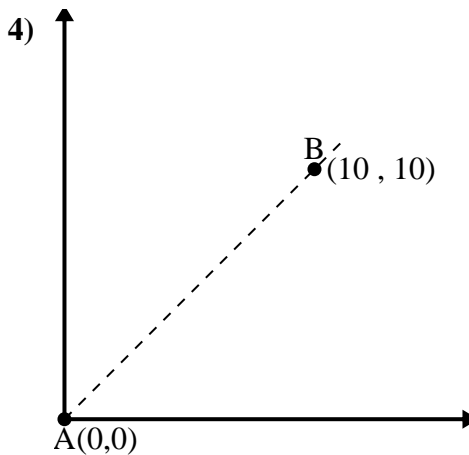
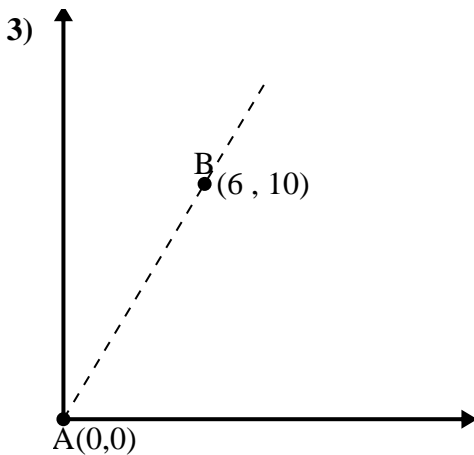
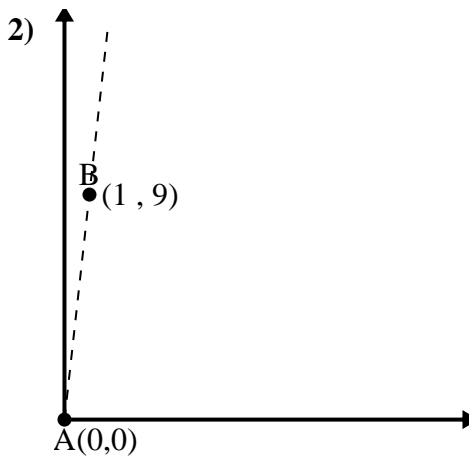
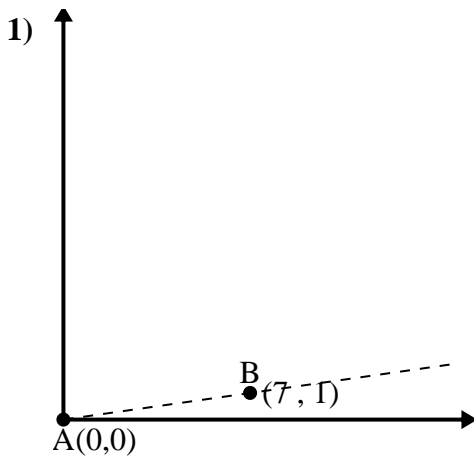
3. 39.81°

4. 53.13°





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



Answers

1. \_\_\_\_\_

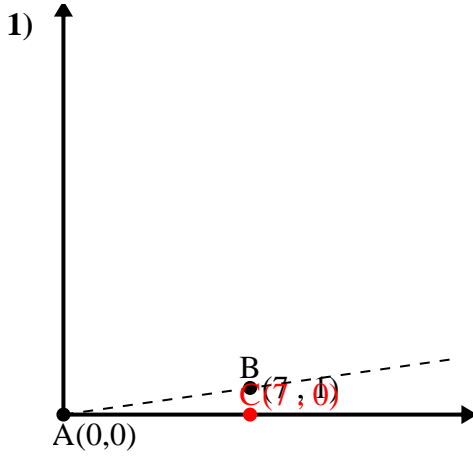
2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_



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



$$\overline{AB} \text{ length} = 7.07$$

$$\overline{AC} \text{ length} = 7$$

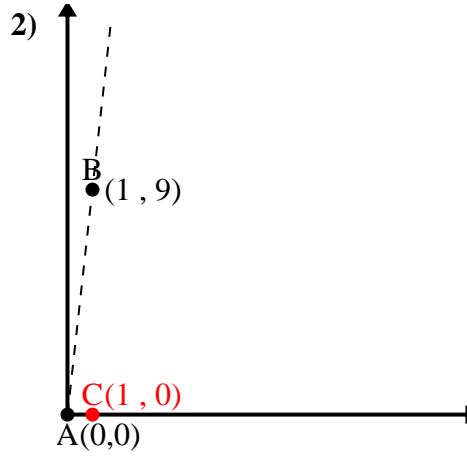
$$\overline{BC} \text{ length} = 1$$

$$(50 + 49 + 1) \div (2 \times 7.07 \times 7)$$

$$0.99$$

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

$$8.13^\circ$$



$$\overline{AB} \text{ length} = 9.06$$

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

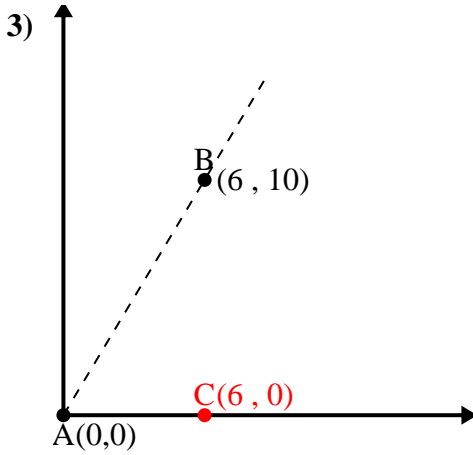
$$\overline{BC} \text{ length} = 9$$

$$(82 + 1 + 81) \div (2 \times 9.06 \times 1)$$

$$0.11$$

$$\cos^{-1}(0.11)$$

$$83.66^\circ$$



$$\overline{AB} \text{ length} = 11.66$$

$$\overline{AC} \text{ length} = 6$$

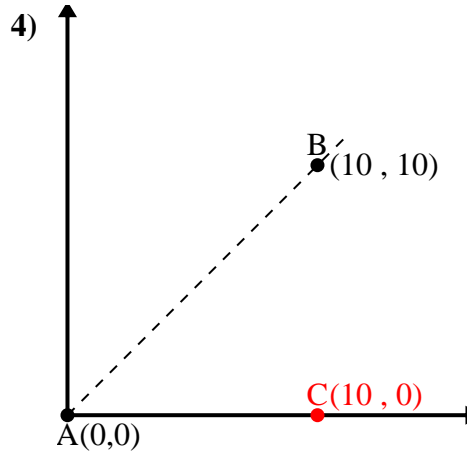
$$\overline{BC} \text{ length} = 10$$

$$(136 + 36 + 100) \div (2 \times 11.66 \times 6)$$

$$0.51$$

$$\cos^{-1}(0.51)$$

$$59.04^\circ$$



$$\overline{AB} \text{ length} = 14.14$$

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

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

$$(200 + 100 + 100) \div (2 \times 14.14 \times 10)$$

$$0.71$$

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

$$45^\circ$$

Answers

1. 8.13°

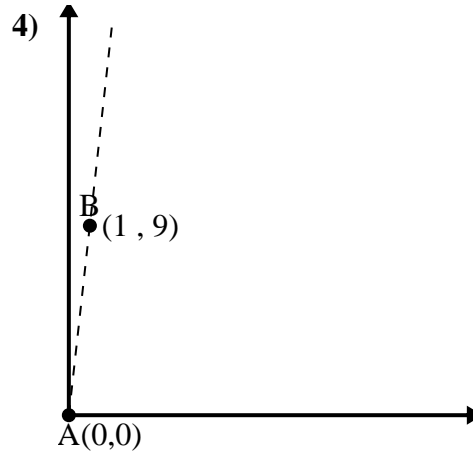
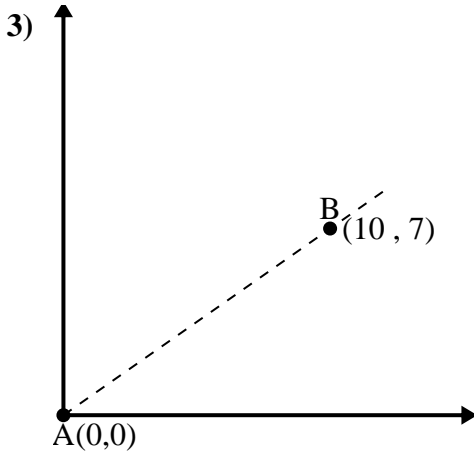
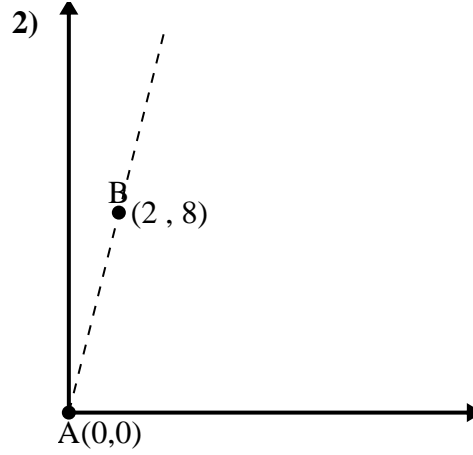
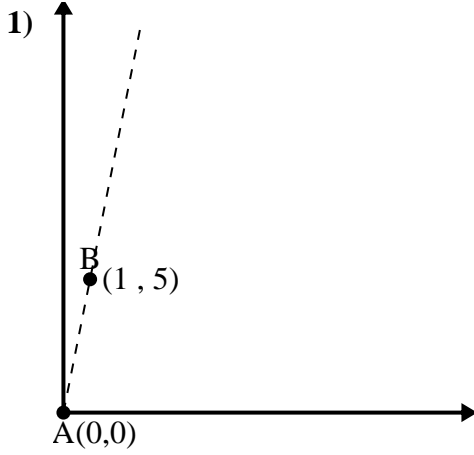
2. 83.66°

3. 59.04°

4. 45°



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



Answers

1. \_\_\_\_\_

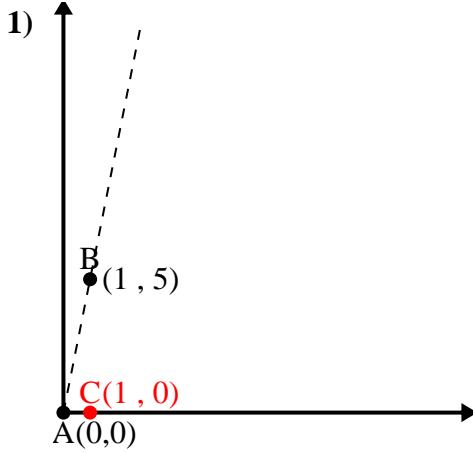
2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_



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



$$\overline{AB} \text{ length} = 5.1$$

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

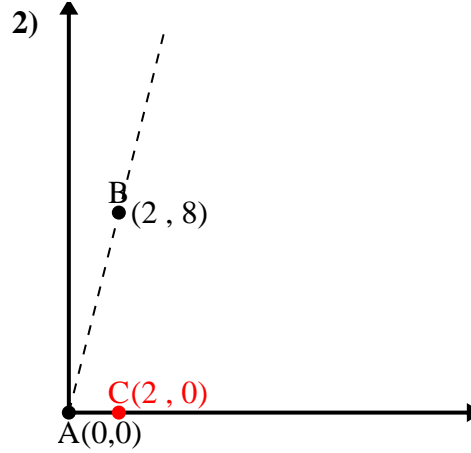
$$\overline{BC} \text{ length} = 5$$

$$(26 + 1 + 25) \div (2 \times 5.1 \times 1)$$

$$0.2$$

$$\cos^{-1}(0.2)$$

$$78.69^\circ$$



$$\overline{AB} \text{ length} = 8.25$$

$$\overline{AC} \text{ length} = 2$$

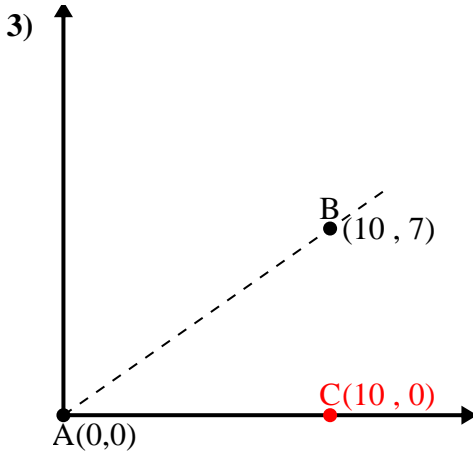
$$\overline{BC} \text{ length} = 8$$

$$(68 + 4 + 64) \div (2 \times 8.25 \times 2)$$

$$0.24$$

$$\cos^{-1}(0.24)$$

$$75.96^\circ$$



$$\overline{AB} \text{ length} = 12.21$$

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

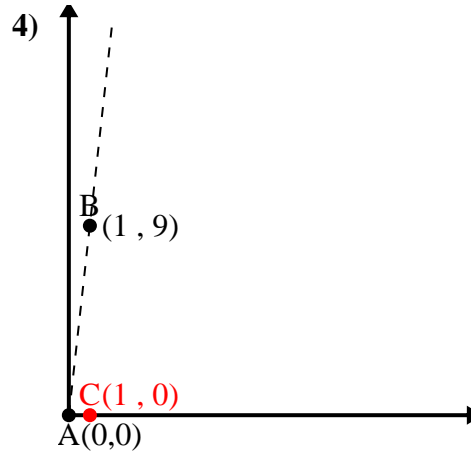
$$\overline{BC} \text{ length} = 7$$

$$(149 + 100 + 49) \div (2 \times 12.21 \times 10)$$

$$0.82$$

$$\cos^{-1}(0.82)$$

$$34.99^\circ$$



$$\overline{AB} \text{ length} = 9.06$$

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

$$\overline{BC} \text{ length} = 9$$

$$(82 + 1 + 81) \div (2 \times 9.06 \times 1)$$

$$0.11$$

$$\cos^{-1}(0.11)$$

$$83.66^\circ$$

Answers

1. 78.69°

2. 75.96°

3. 34.99°

4. 83.66°