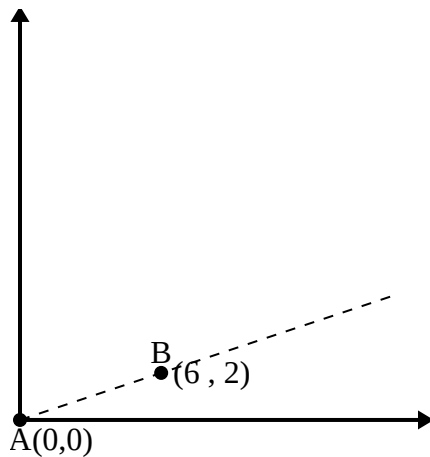




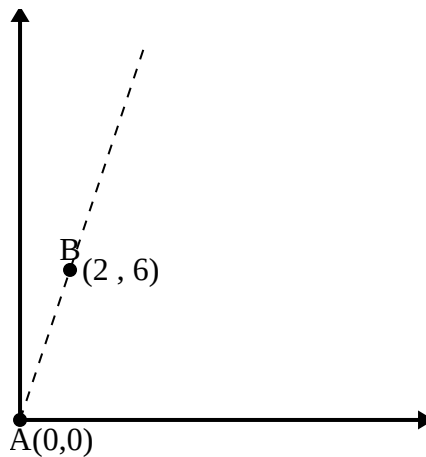
Use the law of Cosines to find the point B's angle relative to point A.

Answers

1)



2)



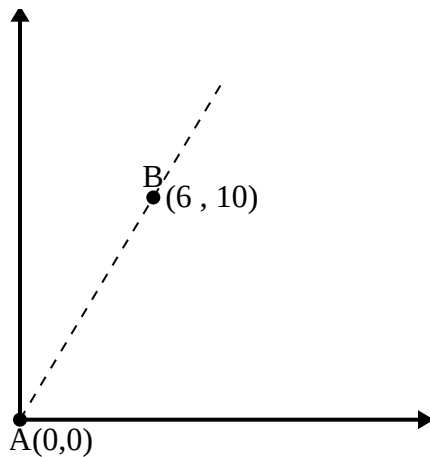
1. _____

2. _____

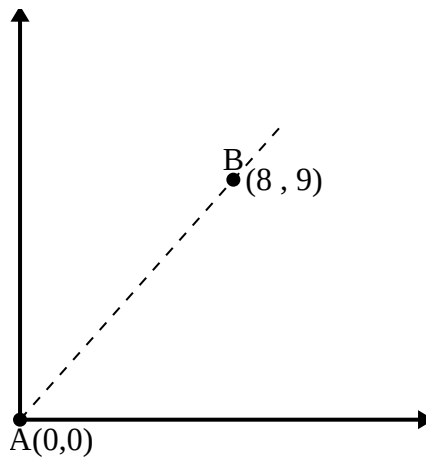
3. _____

4. _____

3)

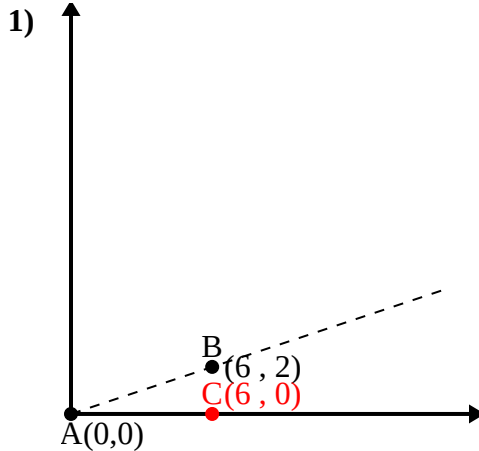


4)





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

Answers

$$\overline{AB} \text{ length} = 6.32$$

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

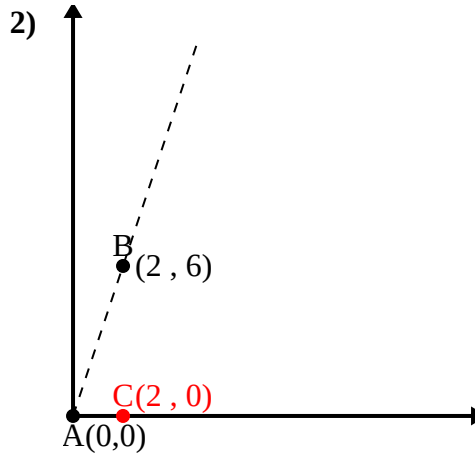
$$\overline{BC} \text{ length} = 2$$

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

$$0.95$$

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

$$18.43^\circ$$



$$\overline{AB} \text{ length} = 6.32$$

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

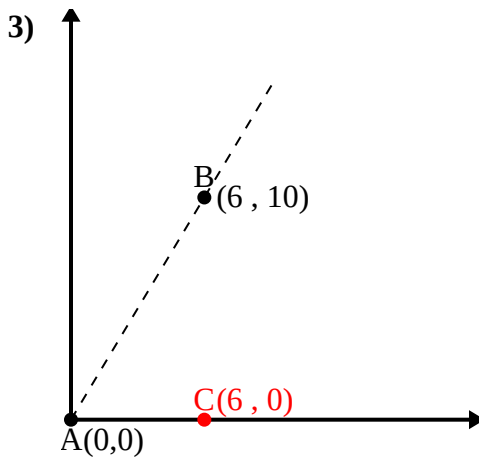
$$\overline{BC} \text{ length} = 6$$

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

$$0.32$$

$$\cos^{-1}(0.32)$$

$$71.57^\circ$$



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

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

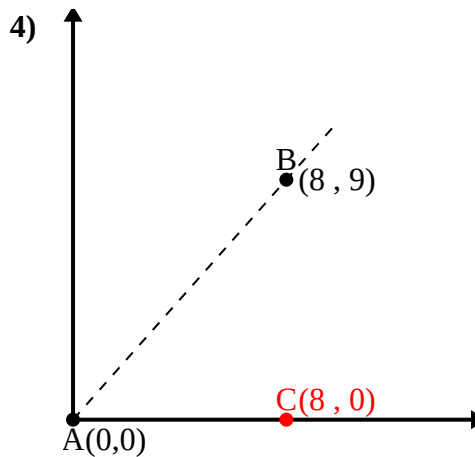
$$\overline{BC} \text{ length} = 10$$

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

$$0.51$$

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

$$59.04^\circ$$



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

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

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

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

$$0.66$$

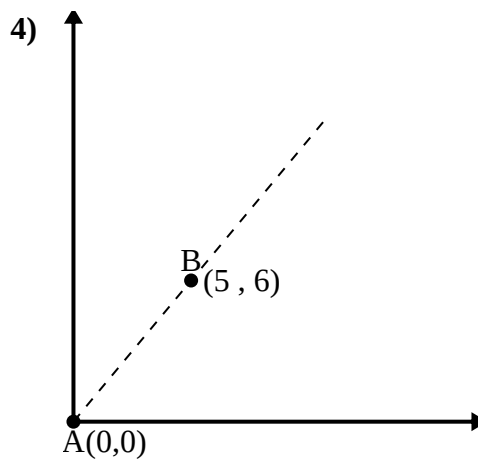
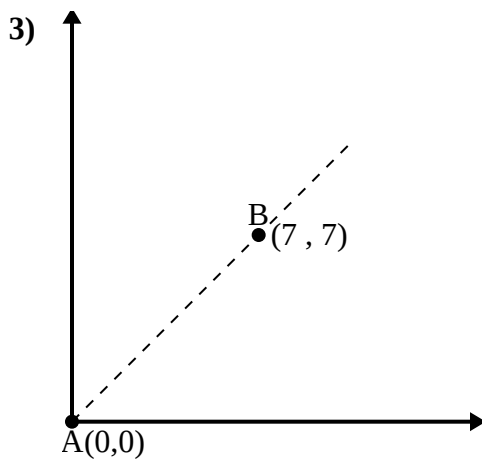
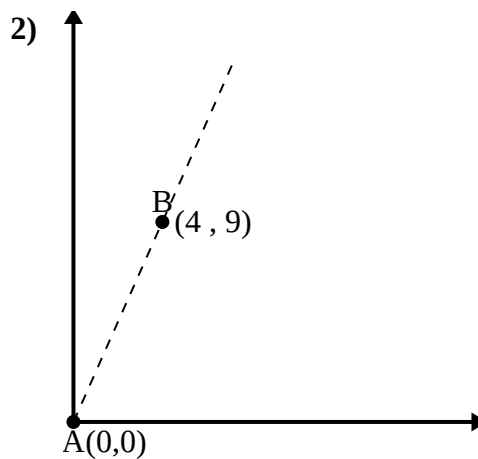
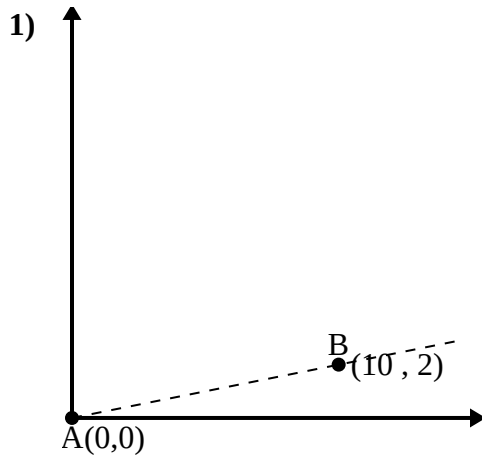
$$\cos^{-1}(0.66)$$

$$48.37^\circ$$

1. **18.43°**
2. **71.57°**
3. **59.04°**
4. **48.37°**



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

Answers

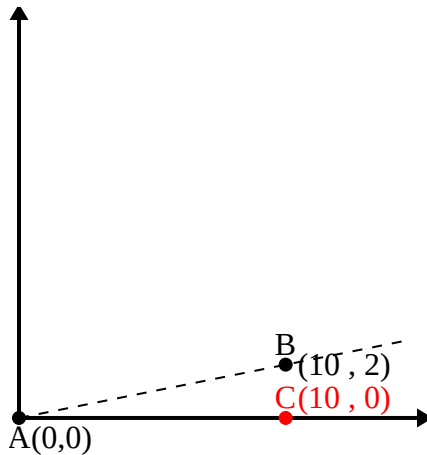
1. _____
2. _____
3. _____
4. _____



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

Answers

1)



$$\overline{AB} \text{ length} = 10.2$$

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

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

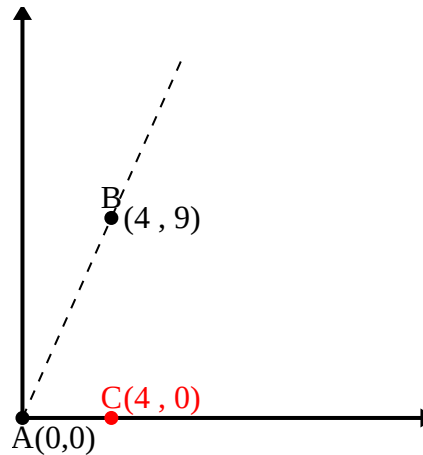
$$(104 + 100 + 4) \div (2 \times 10.2 \times 10)$$

$$0.98$$

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

$$11.31^\circ$$

2)



$$\overline{AB} \text{ length} = 9.85$$

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

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

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

$$0.41$$

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

$$66.04^\circ$$

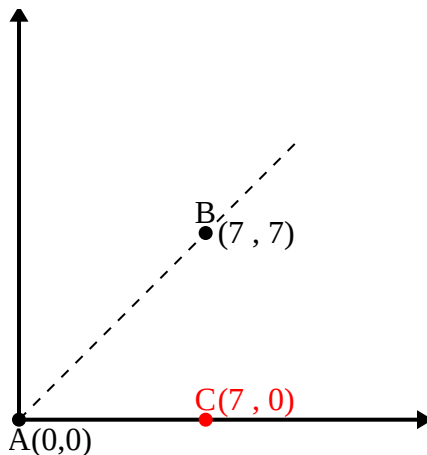
1. 11.31°

2. 66.04°

3. 45°

4. 50.19°

3)



$$\overline{AB} \text{ length} = 9.9$$

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

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

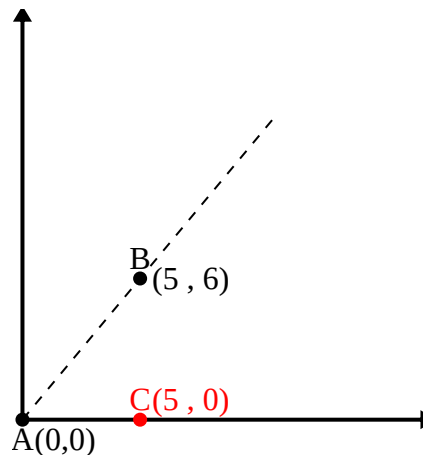
$$(98 + 49 + 49) \div (2 \times 9.9 \times 7)$$

$$0.71$$

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

$$45^\circ$$

4)



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

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

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

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

$$0.64$$

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

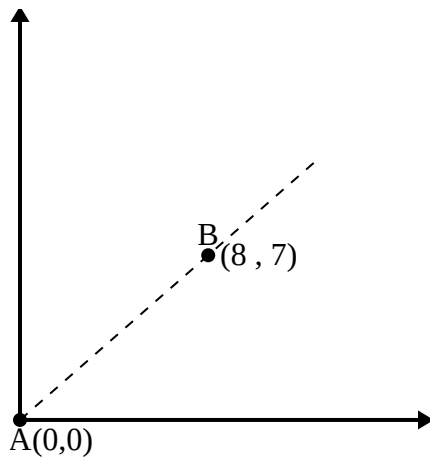
$$50.19^\circ$$



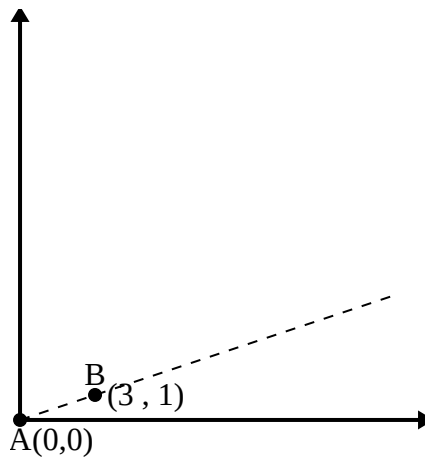
Use the law of Cosines to find the point B's angle relative to point A.

Answers

1)



2)



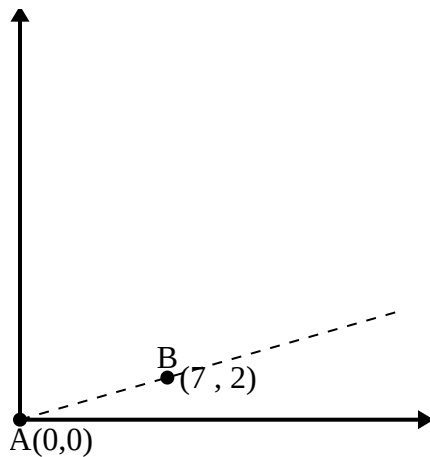
1. _____

2. _____

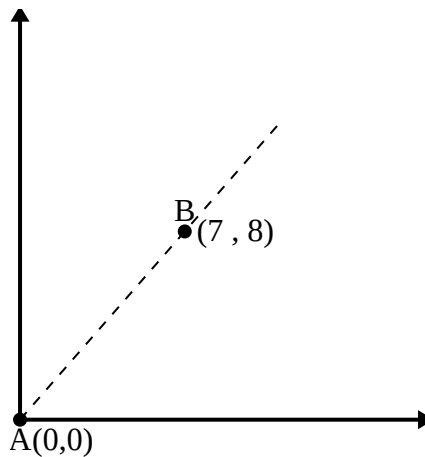
3. _____

4. _____

3)

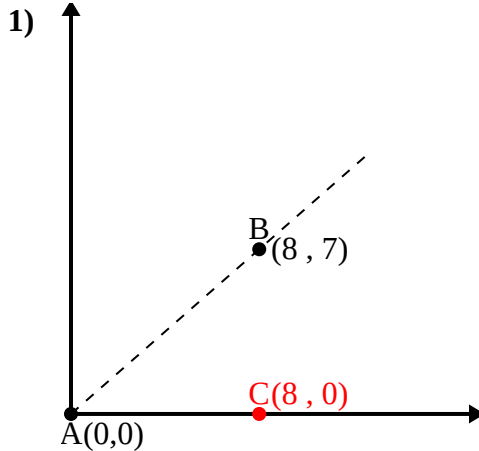


4)





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

Answers

$$\overline{AB} \text{ length} = 10.63$$

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

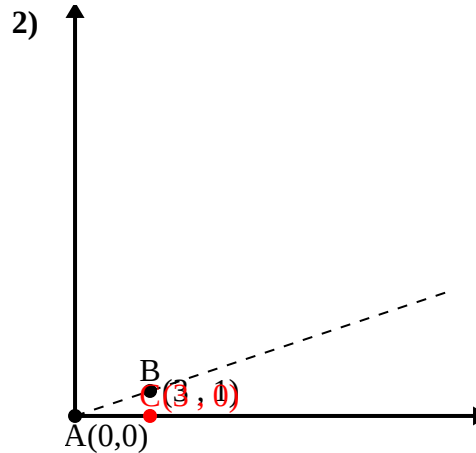
$$\overline{BC} \text{ length} = 7$$

$$(113 + 64 + 49) \div (2 \times 10.63 \times 8)$$

$$0.75$$

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

$$41.19^\circ$$



$$\overline{AB} \text{ length} = 3.16$$

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

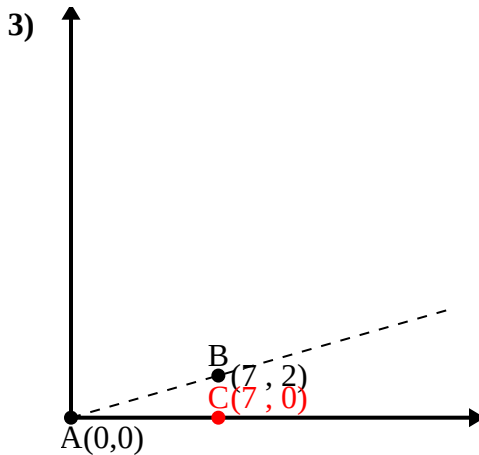
$$\overline{BC} \text{ length} = 1$$

$$(10 + 9 + 1) \div (2 \times 3.16 \times 3)$$

$$0.95$$

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

$$18.43^\circ$$



$$\overline{AB} \text{ length} = 7.28$$

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

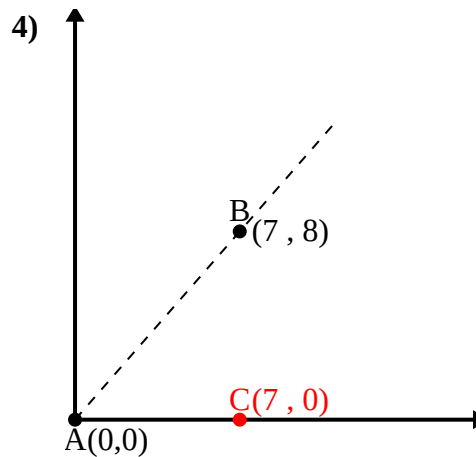
$$\overline{BC} \text{ length} = 2$$

$$(53 + 49 + 4) \div (2 \times 7.28 \times 7)$$

$$0.96$$

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

$$15.95^\circ$$



$$\overline{AB} \text{ length} = 10.63$$

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

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

$$(113 + 49 + 64) \div (2 \times 10.63 \times 7)$$

$$0.66$$

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

$$48.81^\circ$$

1. 41.19°

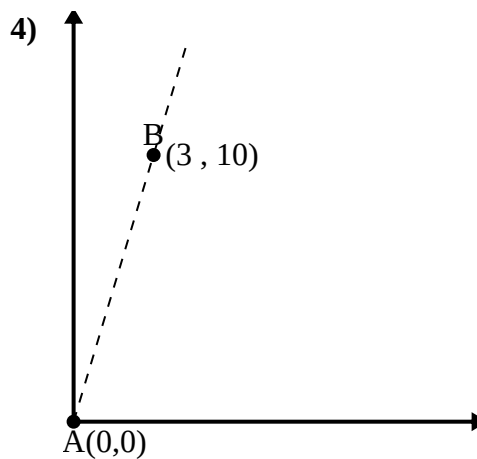
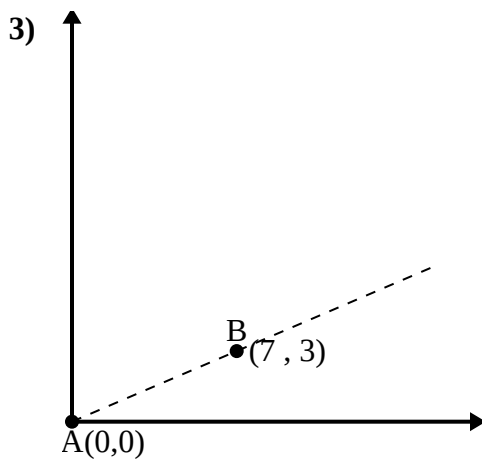
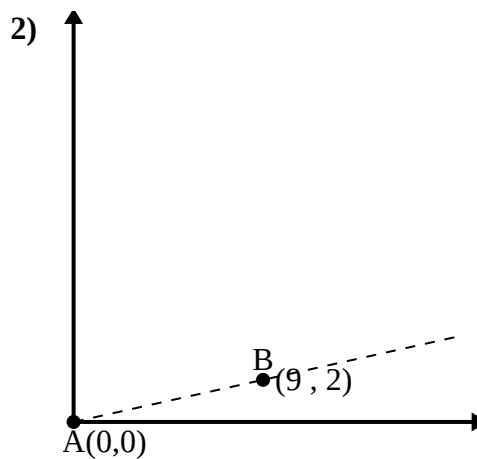
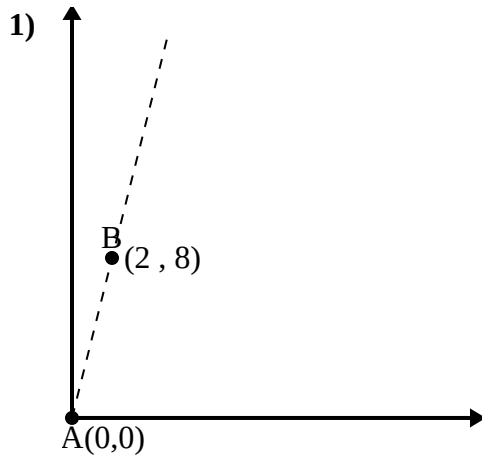
2. 18.43°

3. 15.95°

4. 48.81°



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

Answers

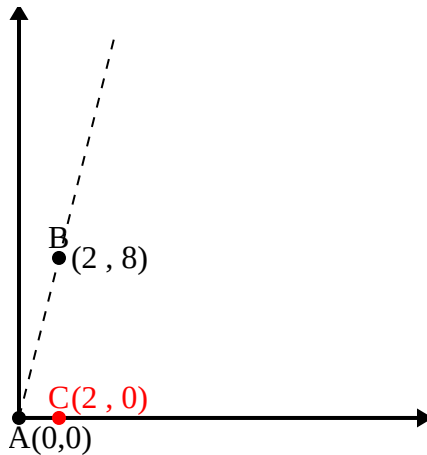
1. _____
2. _____
3. _____
4. _____



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

Answers

1)



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

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

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

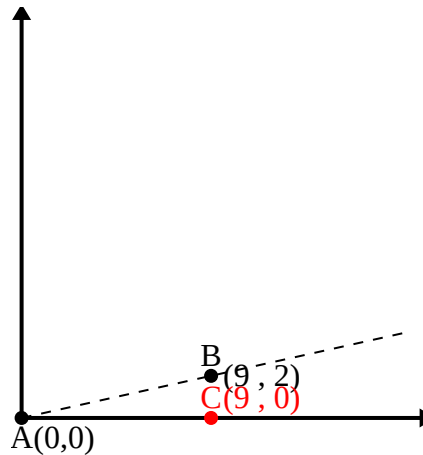
$$(68 + 4 + 64) \div (2 \times 8.25 \times 2)$$

$$0.24$$

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

$$75.96^\circ$$

2)



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

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

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

$$(85 + 81 + 4) \div (2 \times 9.22 \times 9)$$

$$0.98$$

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

$$12.53^\circ$$

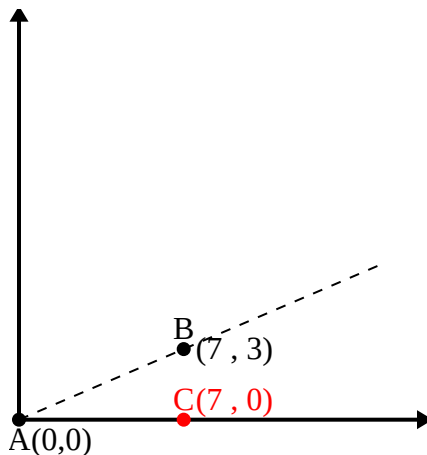
1. 75.96°

2. 12.53°

3. 23.2°

4. 73.3°

3)



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

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

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

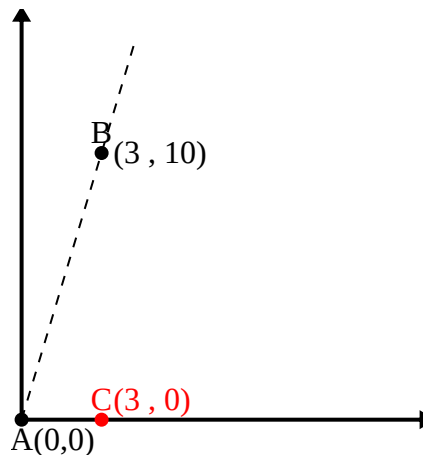
$$(58 + 49 + 9) \div (2 \times 7.62 \times 7)$$

$$0.92$$

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

$$23.2^\circ$$

4)



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

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

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

$$(109 + 9 + 100) \div (2 \times 10.44 \times 3)$$

$$0.29$$

$$\cos^{-1}(0.29)$$

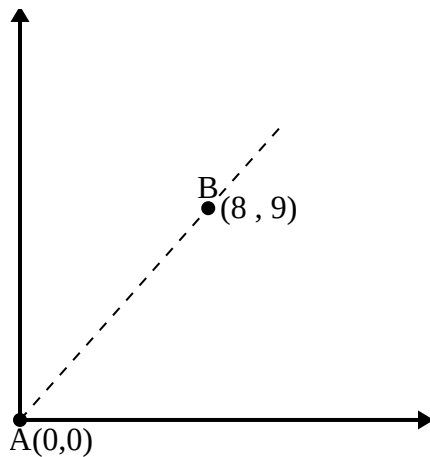
$$73.3^\circ$$



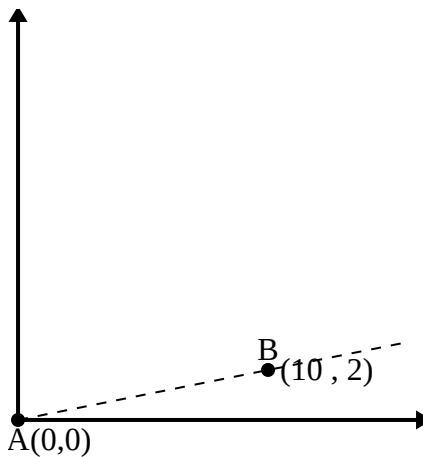
Use the law of Cosines to find the point B's angle relative to point A.

Answers

1)



2)



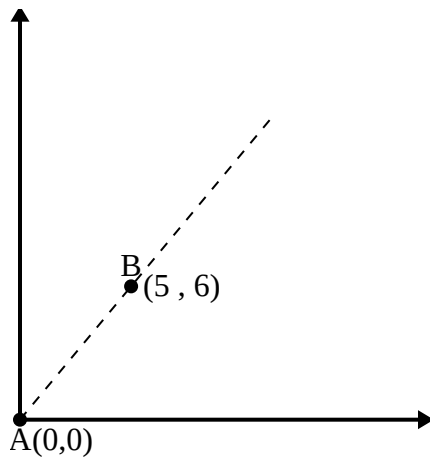
1. _____

2. _____

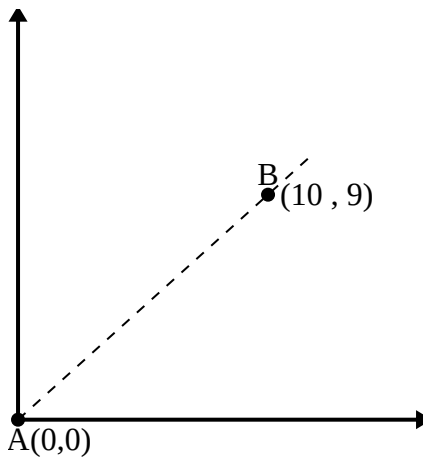
3. _____

4. _____

3)



4)

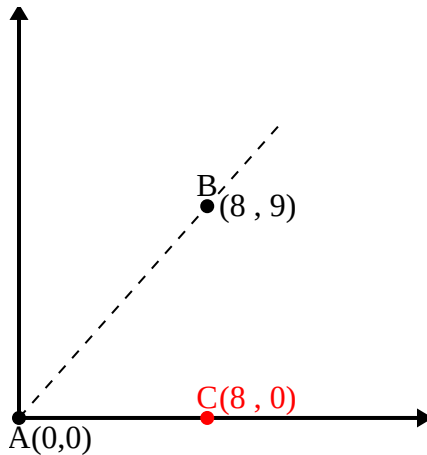




Use the law of Cosines to find the point B's angle relative to point A.

Answers

1)



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

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

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

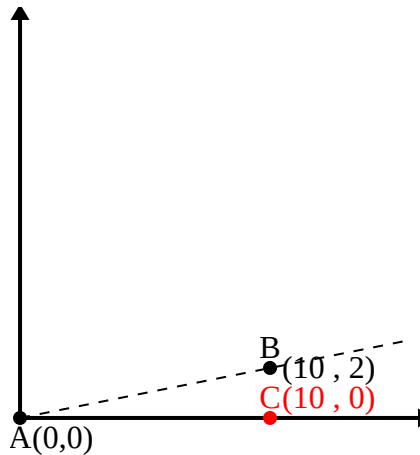
$$(145 + 64 + 81) \div (2 \times 12.04 \times 8)$$

$$0.66$$

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

$$48.37^\circ$$

2)



$$\overline{AB} \text{ length} = 10.2$$

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

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

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

$$0.98$$

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

$$11.31^\circ$$

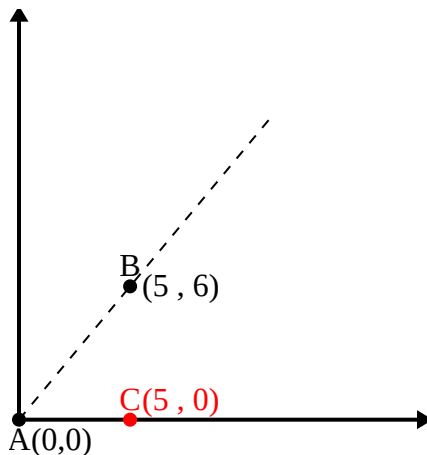
1. 48.37°

2. 11.31°

3. 50.19°

4. 41.99°

3)



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

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

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

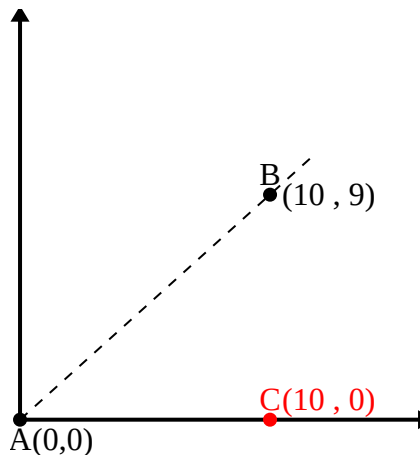
$$(61 + 25 + 36) \div (2 \times 7.81 \times 5)$$

$$0.64$$

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

$$50.19^\circ$$

4)



$$\overline{AB} \text{ length} = 13.45$$

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

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

$$(181 + 100 + 81) \div (2 \times 13.45 \times 10)$$

$$0.74$$

$$\cos^{-1}(0.74)$$

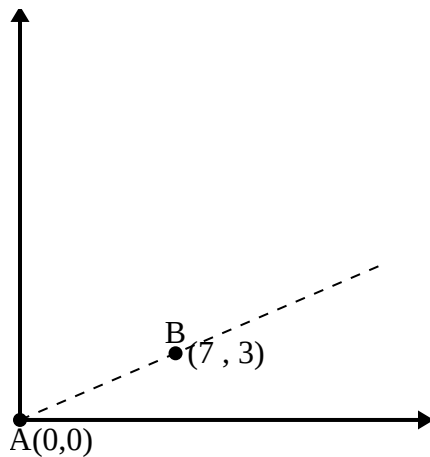
$$41.99^\circ$$



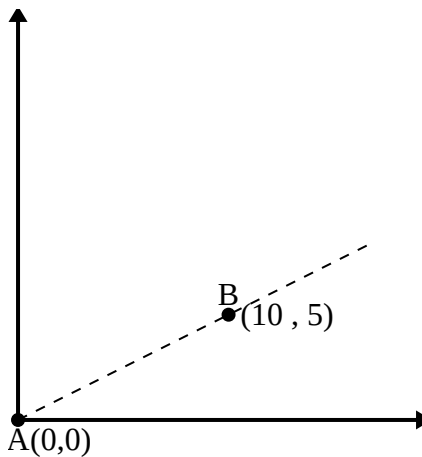
Use the law of Cosines to find the point B's angle relative to point A.

Answers

1)



2)



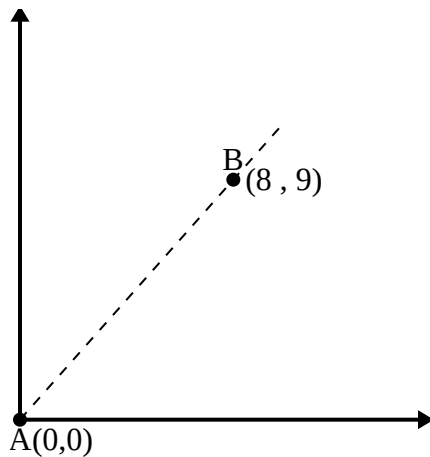
1. _____

2. _____

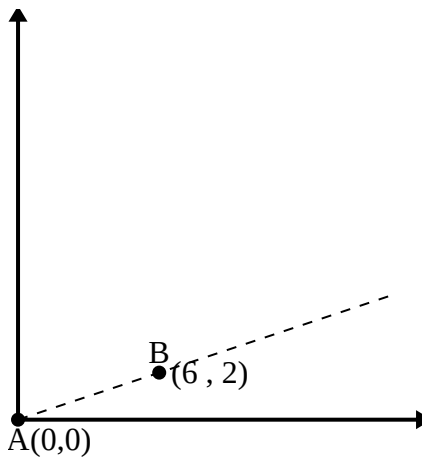
3. _____

4. _____

3)

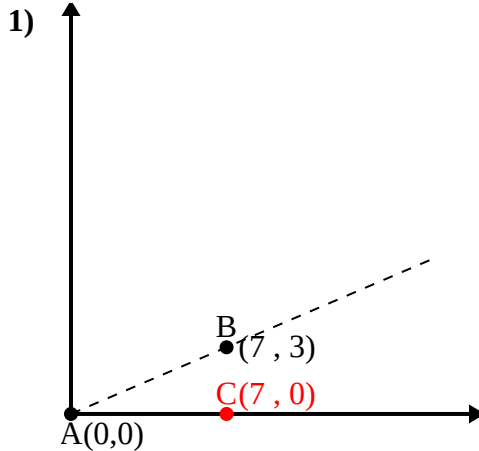


4)





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

Answers

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

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

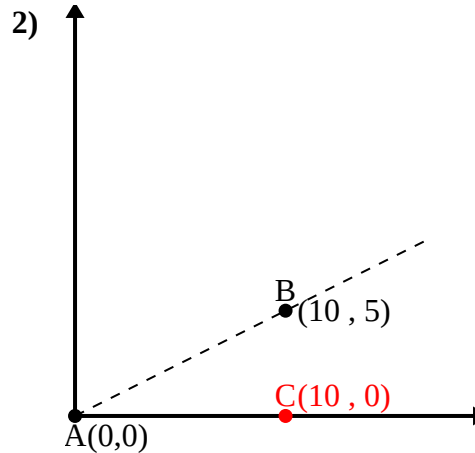
$$\overline{BC} \text{ length} = 3$$

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

$$0.92$$

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

$$23.2^\circ$$



$$\overline{AB} \text{ length} = 11.18$$

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

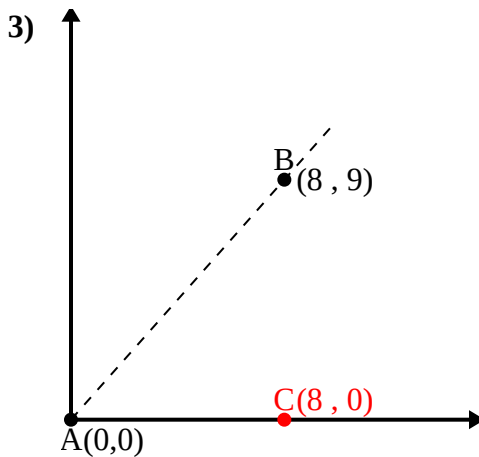
$$\overline{BC} \text{ length} = 5$$

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

$$0.89$$

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

$$26.57^\circ$$



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

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

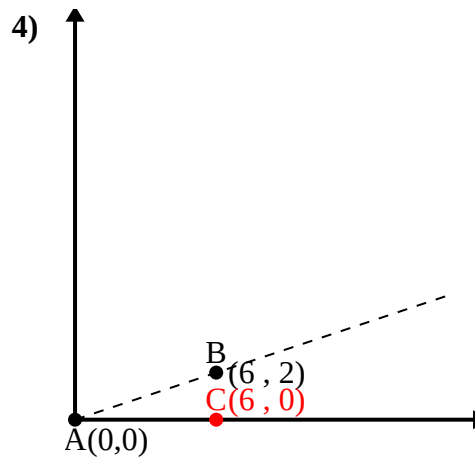
$$\overline{BC} \text{ length} = 9$$

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

$$0.66$$

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

$$48.37^\circ$$



$$\overline{AB} \text{ length} = 6.32$$

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

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

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

$$0.95$$

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

$$18.43^\circ$$

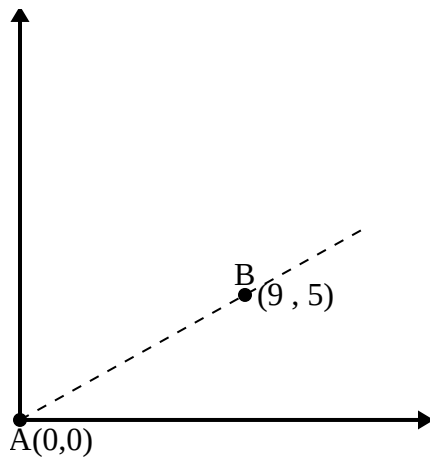
1. **23.2°**
2. **26.57°**
3. **48.37°**
4. **18.43°**



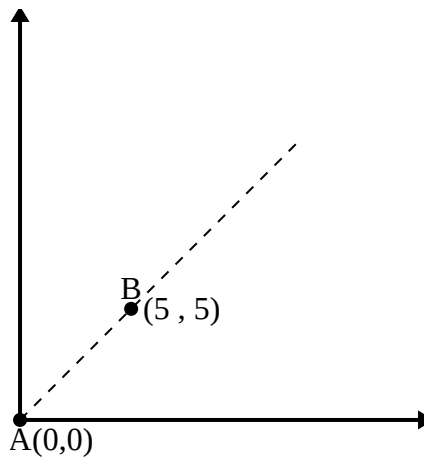
Use the law of Cosines to find the point B's angle relative to point A.

Answers

1)



2)



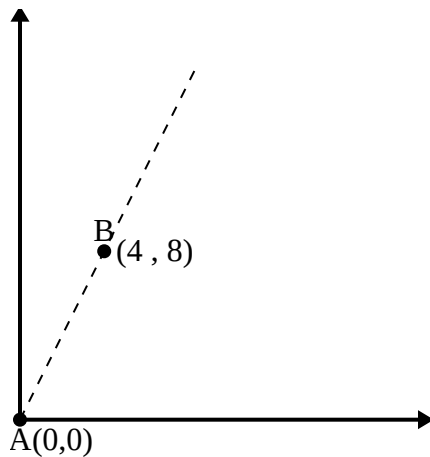
1. _____

2. _____

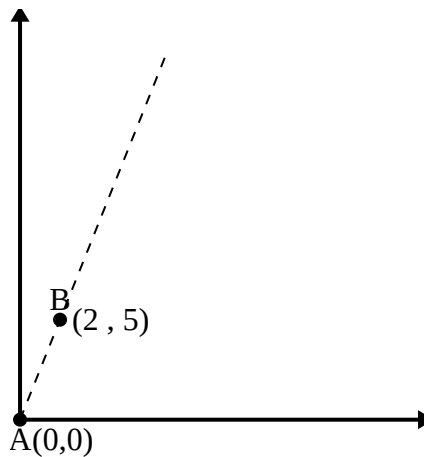
3. _____

4. _____

3)



4)

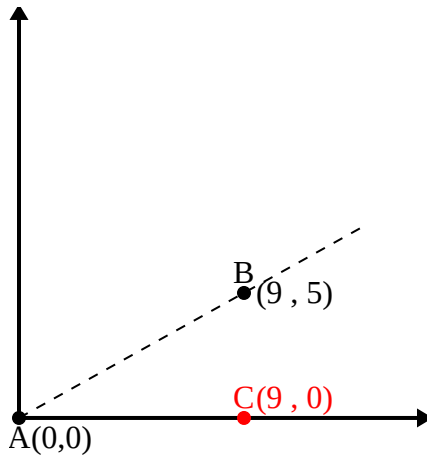




Use the law of Cosines to find the point B's angle relative to point A.

Answers

1)



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

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

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

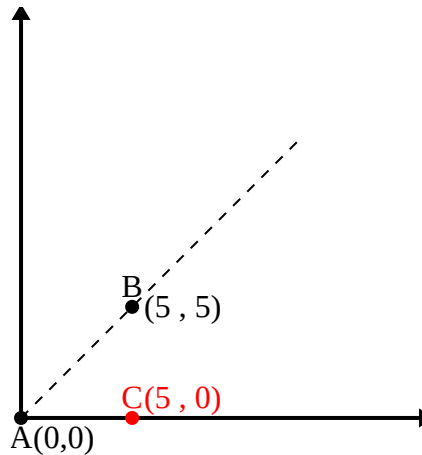
$$(106 + 81 + 25) \div (2 \times 10.3 \times 9)$$

$$0.87$$

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

$$29.05^\circ$$

2)



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

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

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

$$(50 + 25 + 25) \div (2 \times 7.07 \times 5)$$

$$0.71$$

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

$$45^\circ$$

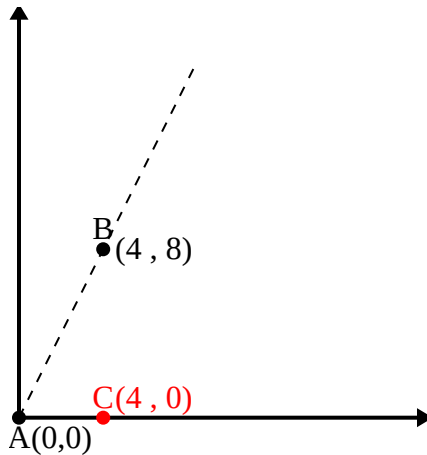
1. 29.05°

2. 45°

3. 63.43°

4. 68.2°

3)



$$\overline{AB} \text{ length} = 8.94$$

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

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

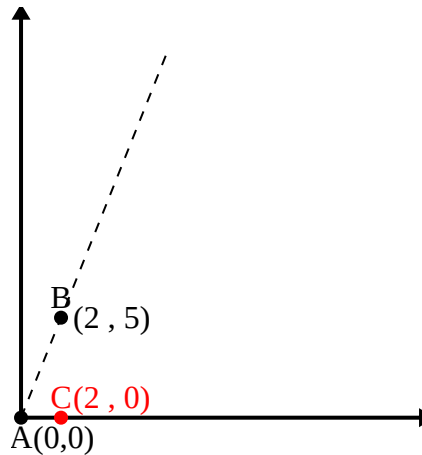
$$(80 + 16 + 64) \div (2 \times 8.94 \times 4)$$

$$0.45$$

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

$$63.43^\circ$$

4)



$$\overline{AB} \text{ length} = 5.39$$

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

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

$$(29 + 4 + 25) \div (2 \times 5.39 \times 2)$$

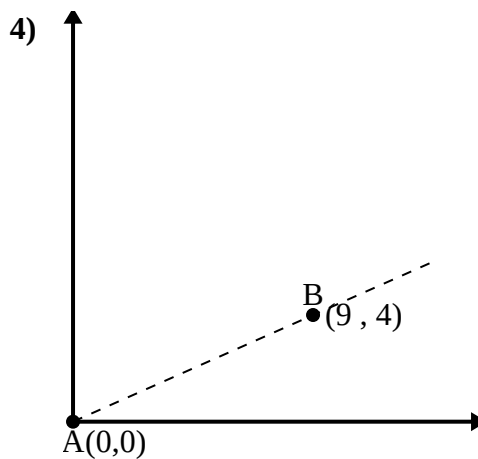
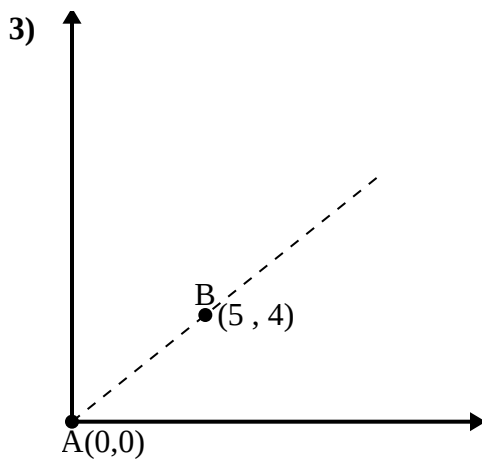
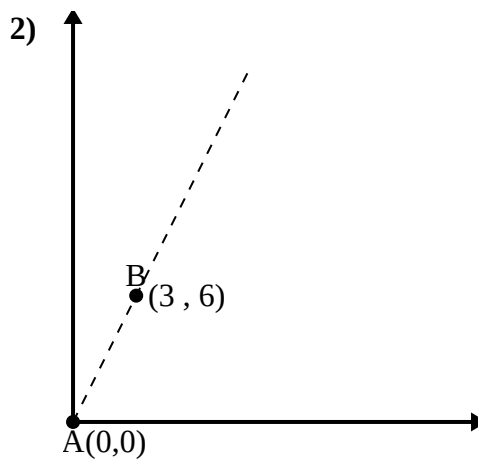
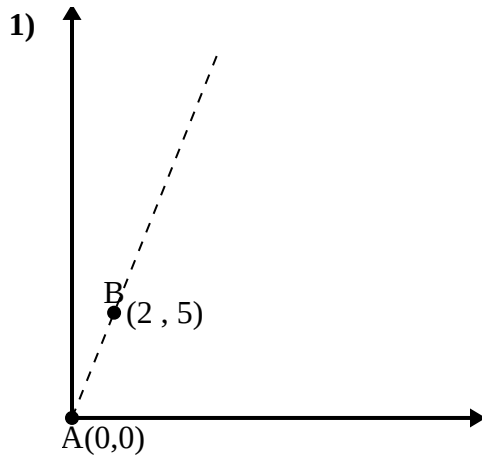
$$0.37$$

$$\cos^{-1}(0.37)$$

$$68.2^\circ$$



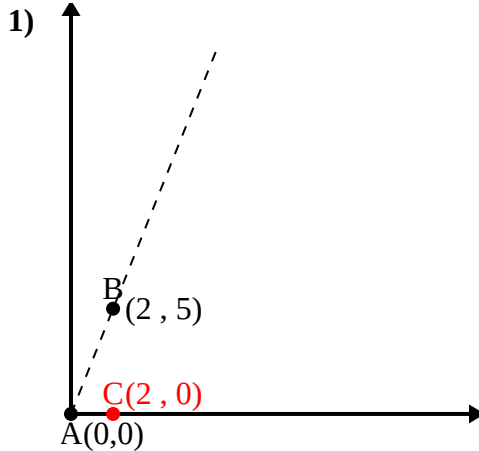
Use the law of Cosines to find the point B's angle relative to point A.

Answers

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



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

Answers

$$\overline{AB} \text{ length} = 5.39$$

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

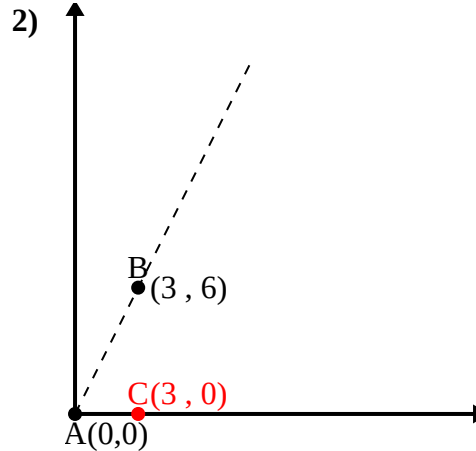
$$\overline{BC} \text{ length} = 5$$

$$(29 + 4 + 25) \div (2 \times 5.39 \times 2)$$

$$0.37$$

$$\cos^{-1}(0.37)$$

$$68.2^\circ$$



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

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

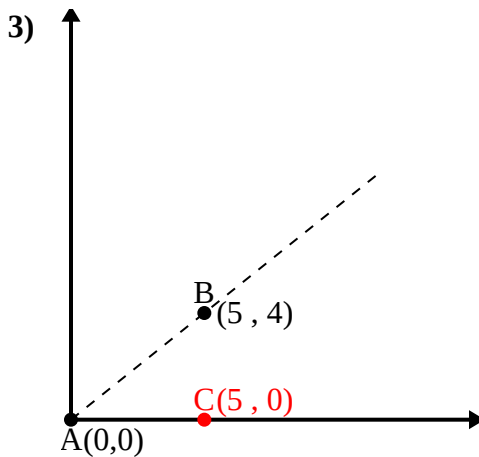
$$\overline{BC} \text{ length} = 6$$

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

$$0.45$$

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

$$63.43^\circ$$



$$\overline{AB} \text{ length} = 6.4$$

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

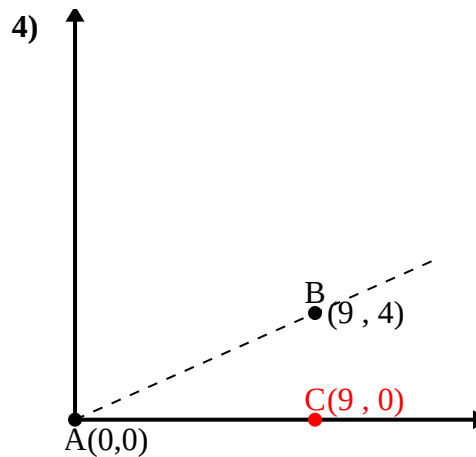
$$\overline{BC} \text{ length} = 4$$

$$(41 + 25 + 16) \div (2 \times 6.4 \times 5)$$

$$0.78$$

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

$$38.66^\circ$$



$$\overline{AB} \text{ length} = 9.85$$

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

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

$$(97 + 81 + 16) \div (2 \times 9.85 \times 9)$$

$$0.91$$

$$\cos^{-1}(0.91)$$

$$23.96^\circ$$

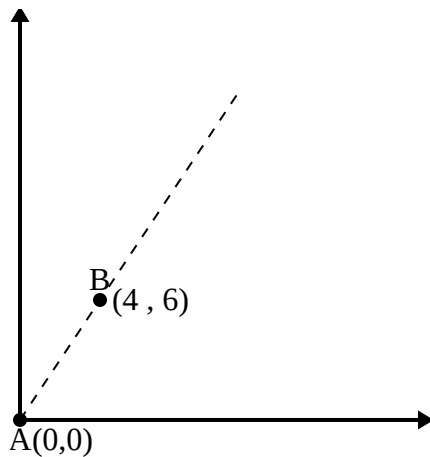
1. **68.2°**
2. **63.43°**
3. **38.66°**
4. **23.96°**



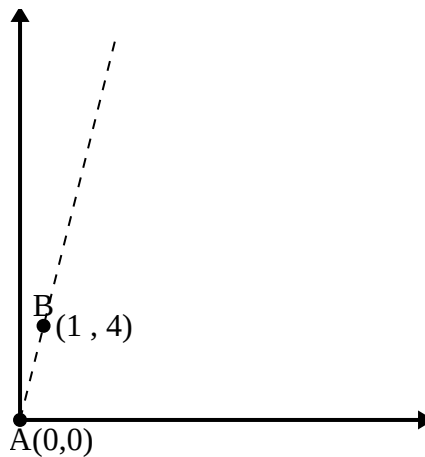
Use the law of Cosines to find the point B's angle relative to point A.

Answers

1)



2)



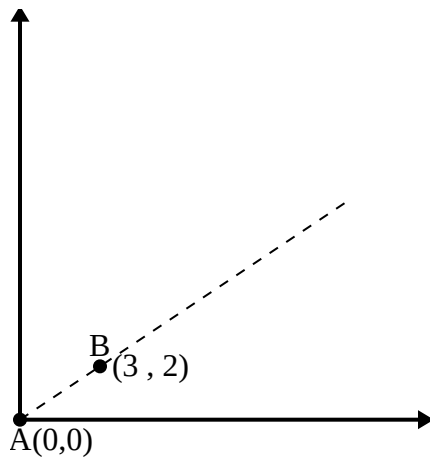
1. _____

2. _____

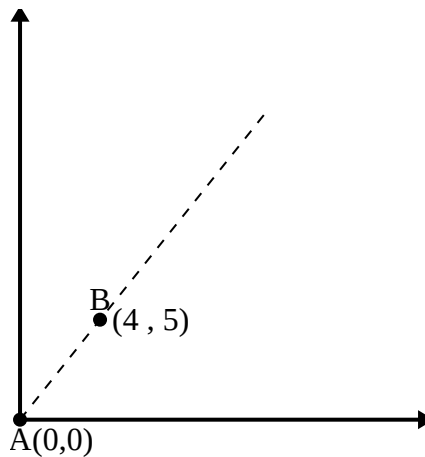
3. _____

4. _____

3)

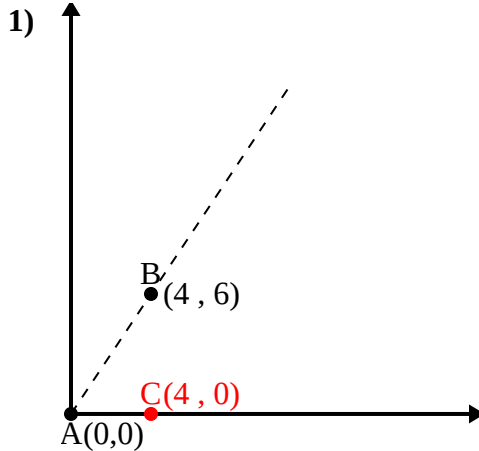


4)





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

Answers

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

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

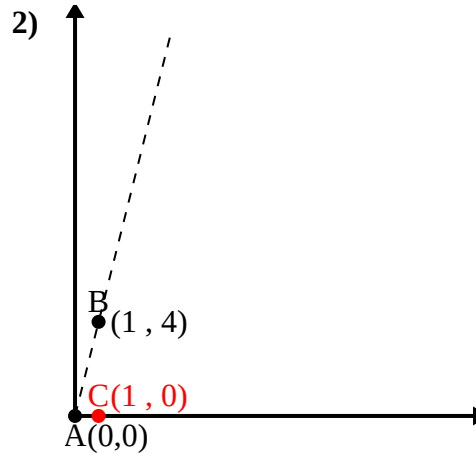
$$\overline{BC} \text{ length} = 6$$

$$(52 + 16 + 36) \div (2 \times 7.21 \times 4)$$

$$0.55$$

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

$$56.31^\circ$$



$$\overline{AB} \text{ length} = 4.12$$

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

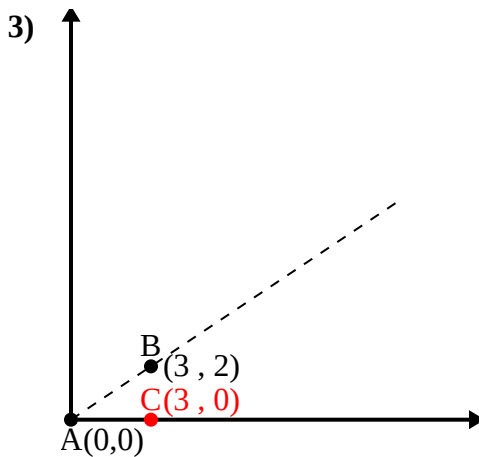
$$\overline{BC} \text{ length} = 4$$

$$(17 + 1 + 16) \div (2 \times 4.12 \times 1)$$

$$0.24$$

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

$$75.96^\circ$$



$$\overline{AB} \text{ length} = 3.61$$

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

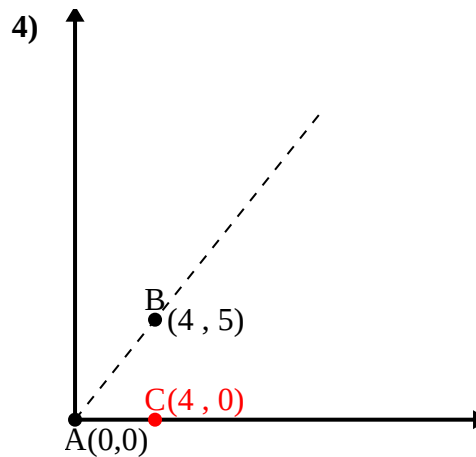
$$\overline{BC} \text{ length} = 2$$

$$(13 + 9 + 4) \div (2 \times 3.61 \times 3)$$

$$0.83$$

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

$$33.69^\circ$$



$$\overline{AB} \text{ length} = 6.4$$

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

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

$$(41 + 16 + 25) \div (2 \times 6.4 \times 4)$$

$$0.62$$

$$\cos^{-1}(0.62)$$

$$51.34^\circ$$

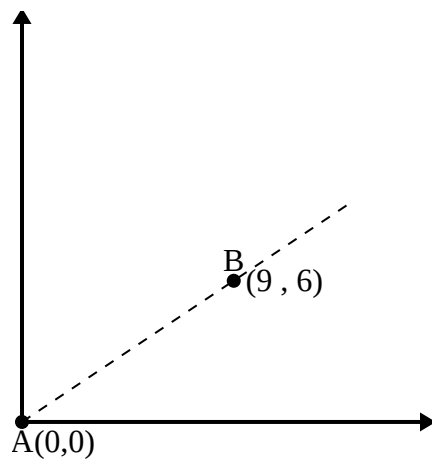
1. 56.31°
2. 75.96°
3. 33.69°
4. 51.34°



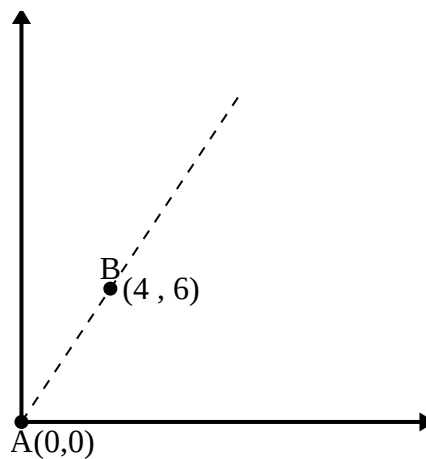
Use the law of Cosines to find the point B's angle relative to point A.

Answers

1)



2)



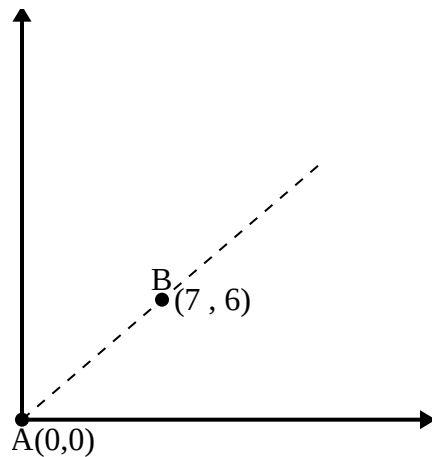
1. _____

2. _____

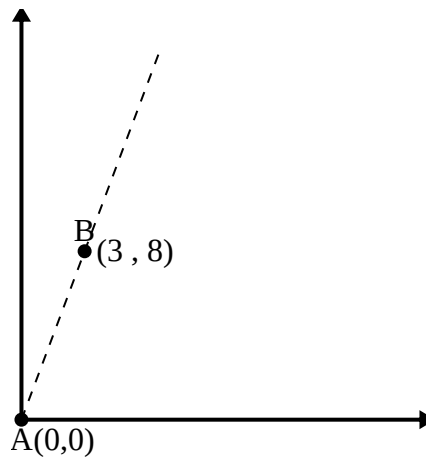
3. _____

4. _____

3)

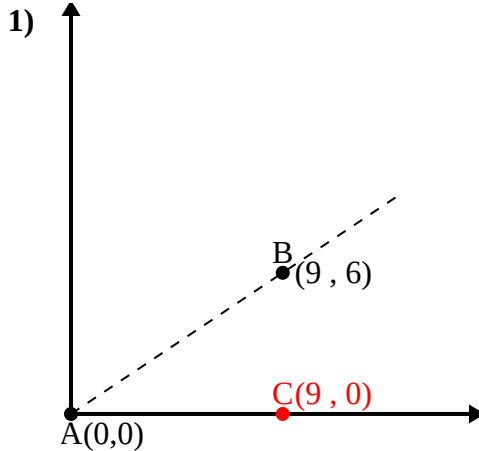


4)





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

Answers

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

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

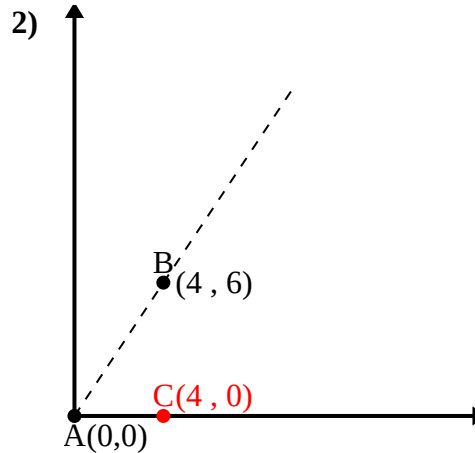
$$\overline{BC} \text{ length} = 6$$

$$(117 + 81 + 36) \div (2 \times 10.82 \times 9)$$

$$0.83$$

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

$$33.69^\circ$$



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

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

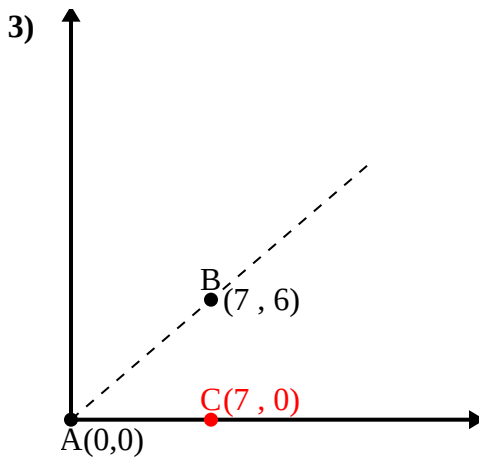
$$\overline{BC} \text{ length} = 6$$

$$(52 + 16 + 36) \div (2 \times 7.21 \times 4)$$

$$0.55$$

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

$$56.31^\circ$$



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

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

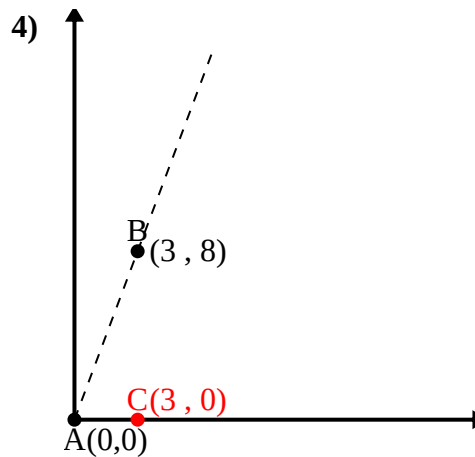
$$\overline{BC} \text{ length} = 6$$

$$(85 + 49 + 36) \div (2 \times 9.22 \times 7)$$

$$0.76$$

$$\cos^{-1}(0.76)$$

$$40.6^\circ$$



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

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

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

$$(73 + 9 + 64) \div (2 \times 8.54 \times 3)$$

$$0.35$$

$$\cos^{-1}(0.35)$$

$$69.44^\circ$$

1. 33.69°
2. 56.31°
3. 40.6°
4. 69.44°