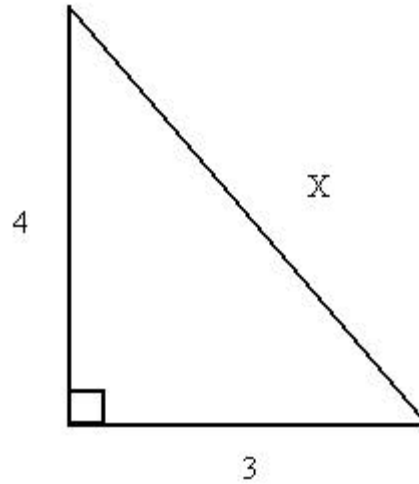


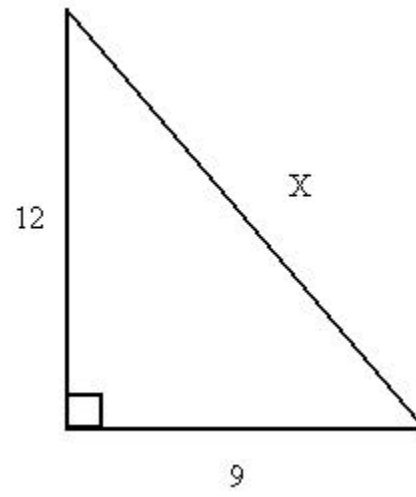
## Pythagorean Theorem

1. Find  $x$  by using the Pythagorean Theorem ( $a^2 + b^2 = c^2$ )



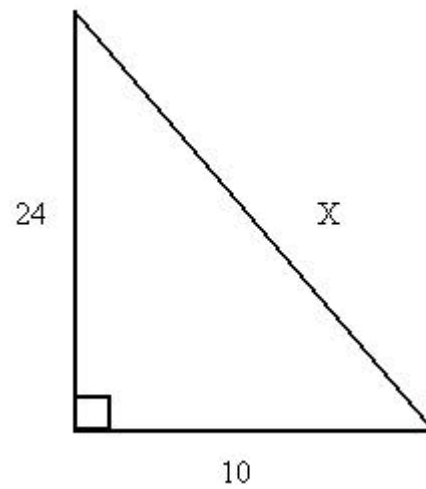
- a) 12
- b) 5
- c) 7
- d) 25

2. Find  $x$  by using the Pythagorean Theorem ( $a^2 + b^2 = c^2$ )



- a) 225
- b) 19
- c) 21
- d) 15

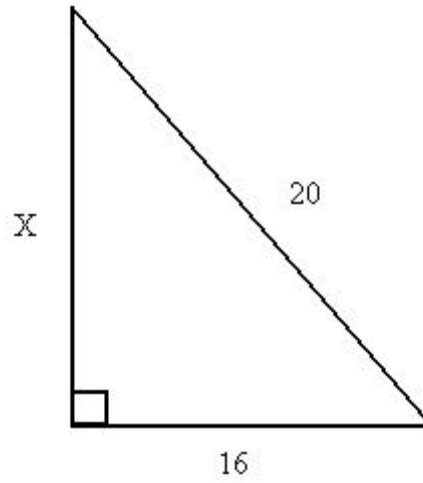
3. Find  $x$  by using the Pythagorean Theorem ( $a^2 + b^2 = c^2$ )



(illustration not to scale)

- a) 38
- b) 676
- c) 34
- d) 26

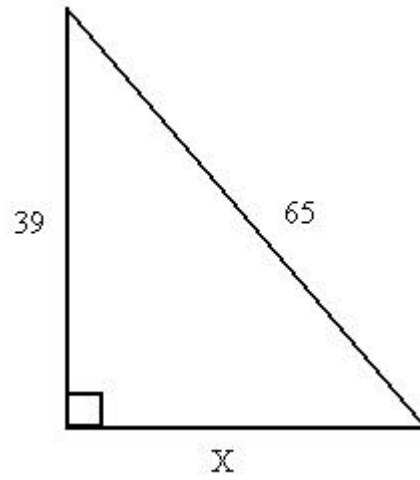
4. Find  $x$  by using the Pythagorean Theorem ( $a^2 + b^2 = c^2$ )



(illustration not to scale)

- a) 12
- b) 14
- c) 10
- d) 36

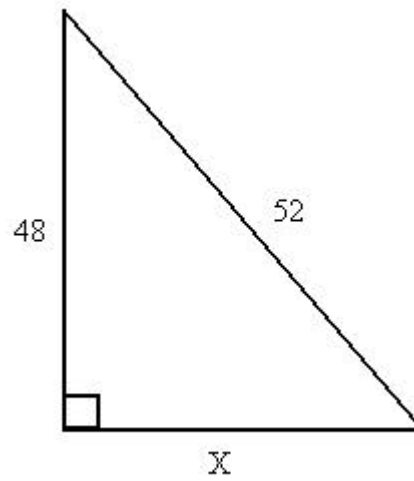
5. Find  $x$  by using the Pythagorean Theorem ( $a^2 + b^2 = c^2$ )



(illustration not to scale)

- a) 26
- b) 48.65
- c) 52
- d) 33

6. Find  $x$  by using the Pythagorean Theorem ( $a^2 + b^2 = c^2$ )



(illustration not to scale)

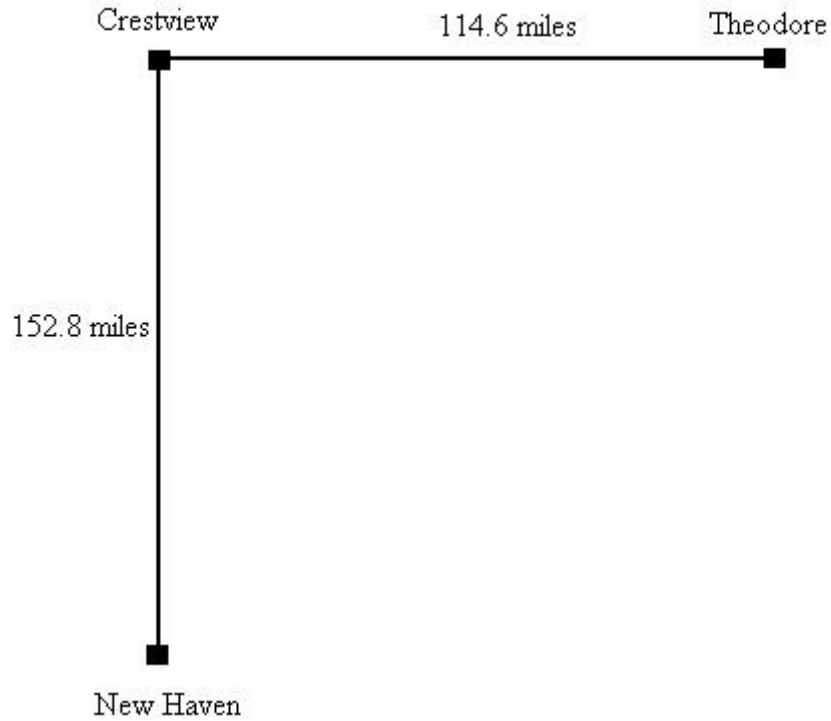
- a) 16
- b) 37
- c) 20
- d) 50

7. Below is a basic map showing the distance between two towns and Underhill. Using this information, how far is it from Charleston to Olympia?



- a) 178.6 miles
- b) 122.2 miles
- c) 432.96 miles
- d) 159.8 miles

8. Below is a basic map showing the distance between two towns and Underhill. Using this information, how far is it from Charleston to Olympia?

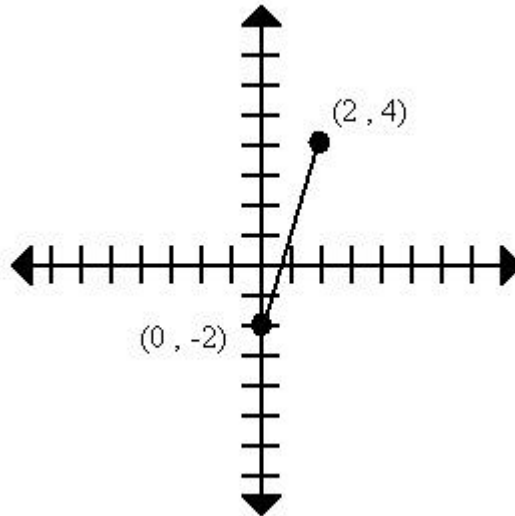


(map not to scale)

- a) 305.6 miles
- b) 191 miles
- c) 145.9 miles
- d) 267.4miles

9. Use the distance formula to determine the length of the line.

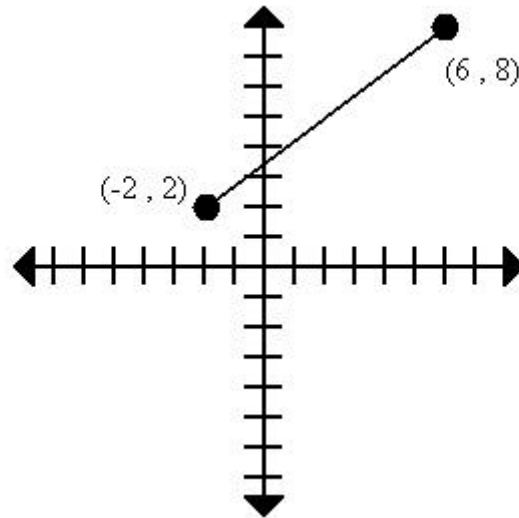
Remember: Distance Formula =  $(x_2 - x_1)^2 + (y_2 - y_1)^2$



- a) 410
- b) 42
- c) 8
- d) 210

10. Use the distance formula to determine the length of the line.

Remember: Distance Formula =  $(x_2 - x_1)^2 + (y_2 - y_1)^2$



- a) 45
- b) 14
- c) 86
- d) 10