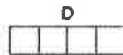
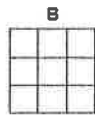
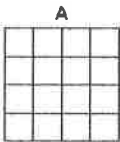
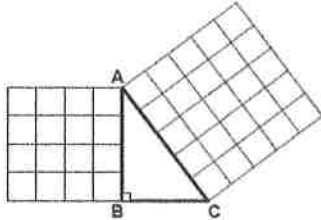


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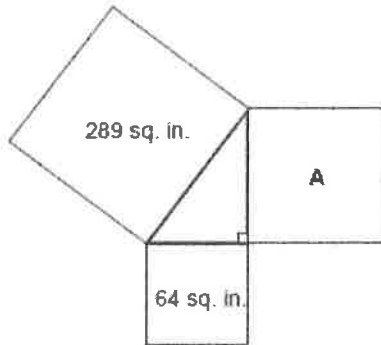
# Pythagorean Theorem Review

**Learning Target:** Use models of Pythagorean Theorem to solve problems

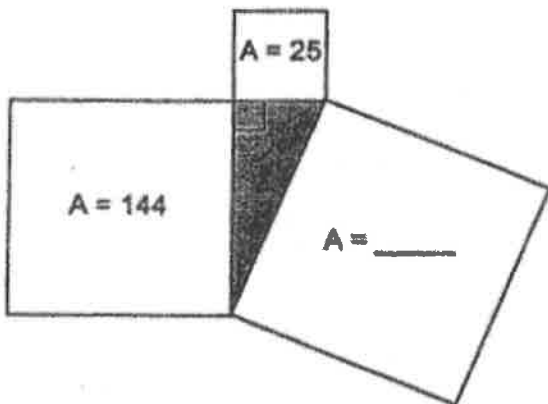
1. Which of the following should be attached to side BC to demonstrate the Pythagorean Theorem?



2. Look at the diagram below of the Pythagorean Theorem. What is the area of square A?

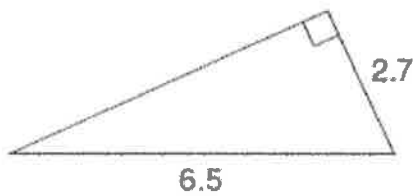
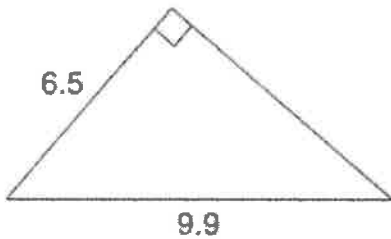
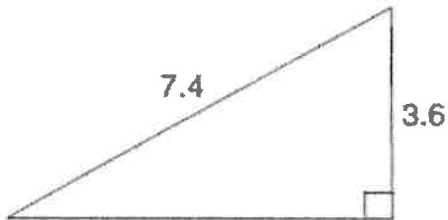
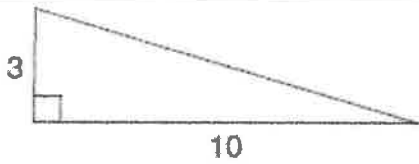
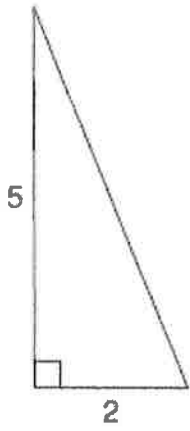


3.



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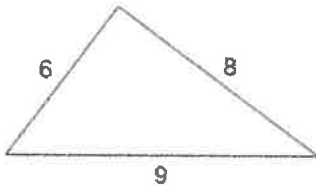
**Learning Target:** We are learning to use Pythagorean Theorem to find the missing leg or hypotenuse of a right triangle.



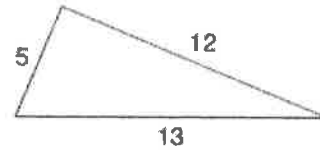
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**Learning Target: We are learning to determine if three given numbers will form a right triangle**

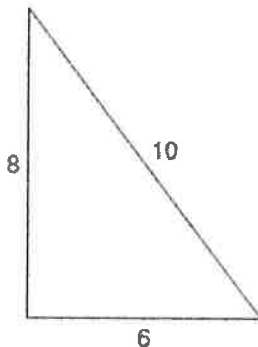
1)



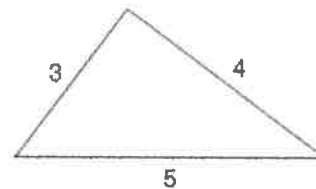
2)



3)

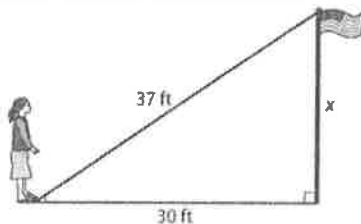


4)

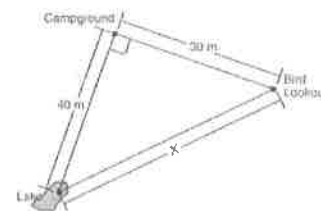


**Learning Target: We are learning to solve multi-step application problems involving Pythagorean Theorem**

1. An observer is standing 30 feet from a flagpole. She is looking at the top of the flagpole. How tall is the flagpole? Round to the nearest tenth if necessary.



2.



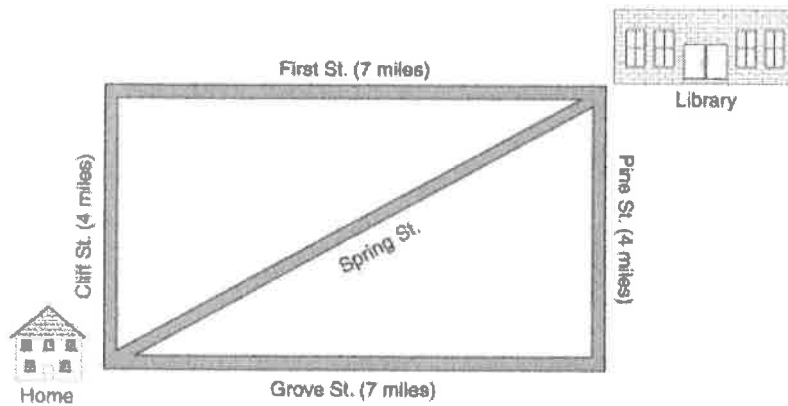
On Zora's map, the distance from the lake to her campground and the distance from her campground to the bird lookout are shown above.

What is the distance from the bird lookout to the lake?

- A. 50 m
- B. 70 m
- C. 1,200 m
- D. 2,500 m

NAME: \_\_\_\_\_

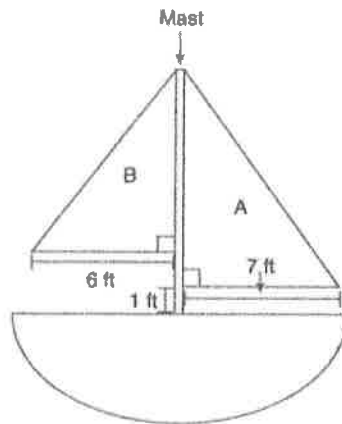
3.



Ms. Guzman usually takes Grove Street to Pine Street, or Cliff Street to First Street, to get to the library. Now there is a new road that might be a more direct route. Which is closest to the length of Spring Street?

- A. 3 miles
- B. 8 miles
- C. 11 miles
- D. 65 miles

4.



The sailboat above has a mast that is 10 feet high.

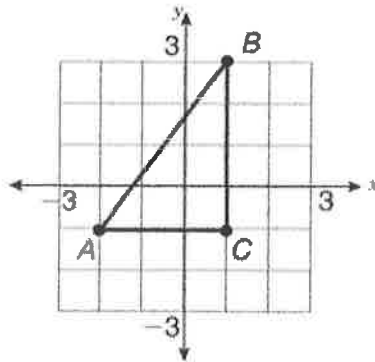
The owner of the boat needs to purchase a rope that runs along the long side of sail A. What length of rope, rounded to the nearest tenth of a foot, does the owner need to buy?

- A. 9.2 ft
- B. 10.8 ft
- C. 11.4 ft
- D. 12.2 ft

NAME: \_\_\_\_\_

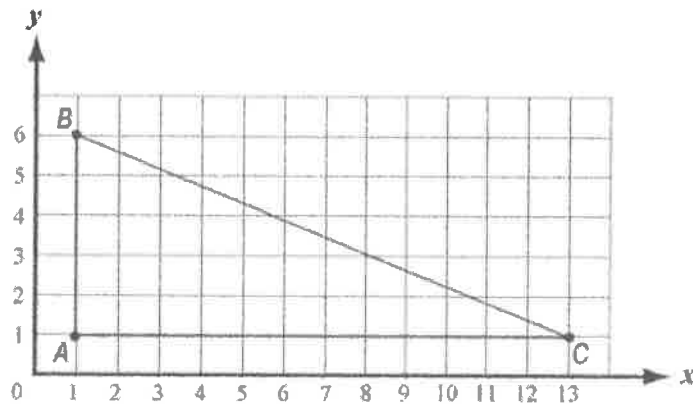
**Learning Target: We are learning to find the distance between points on the coordinate plane**

1.



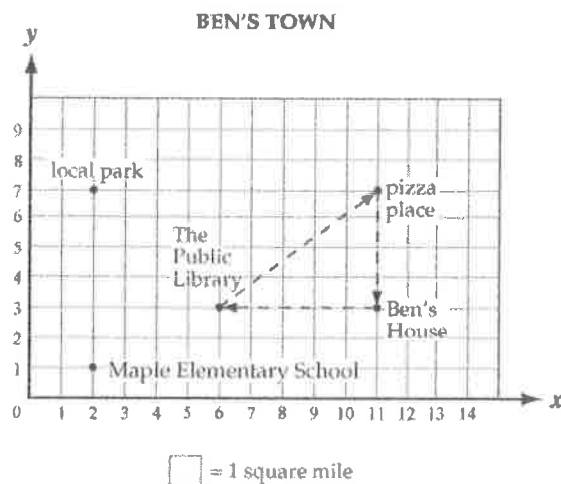
What is the perimeter of  $\triangle ABC$ ?

2.



Noah drew triangle  $ABC$  on the coordinate grid above. What is the length of side  $BC$ ?

3.



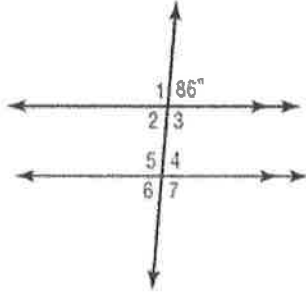
Ben rode his bicycle to do some work at the public library. Before returning home, he rode to the pizza place to meet his friends. The route Ben took is shown on the coordinate grid above.

About how many miles is the distance from the library to the pizza place?

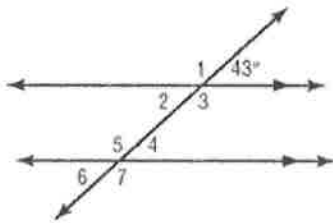
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**Learning Target: We are learning to apply angle relationships to set-up equations and solve for missing angle measurements**

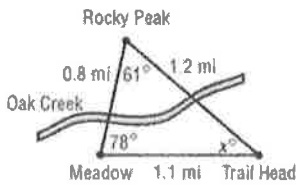
1. Find all of the missing angle values in the figure below.



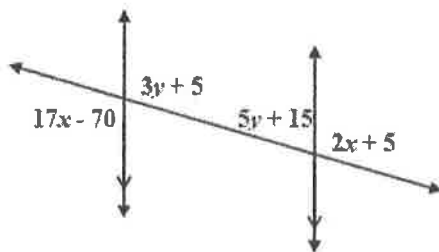
2. Find all of the missing angle values in the figure below.



3. The figure shows the Oak Creek trail, which is shaped like a triangle. What is the value of  $x$  in the figure?



4. Solve for  $x$  and  $y$



5. Find the value of  $a$

