

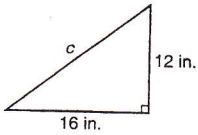
# 9-4

## Practice

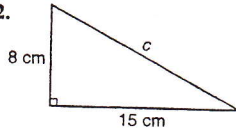
### The Pythagorean Theorem

Write an equation you could use to find the length of the missing side of each right triangle. Then find the missing length. Round to the nearest tenth.

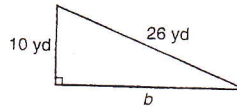
1.



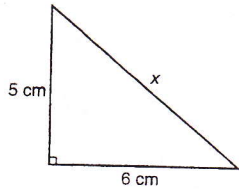
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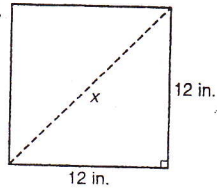
3.



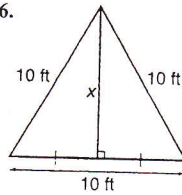
4.



5.



6.



7.  $a$ , 24 ft;  $b$ , 32 ft

8.  $a$ , 9 ft;  $c$ , 16 ft

9.  $b$ , 5 in.;  $c$ , 11 in.

10.  $a$ , 8 cm;  $b$ , 12 cm

11.  $b$ , 15 yd;  $c$ , 21 yd

Determine whether each triangle with sides of given lengths is a right triangle.

13. 6 cm, 8 cm, 10 cm

14. 9 mm, 12 mm, 16 mm

15. 18 ft, 80 ft, 82 ft

16. 10 mi, 24 mi, 25 mi

17. 15 cm, 36 cm, 39 cm

18. 16 yd, 30 yd, 34 yd

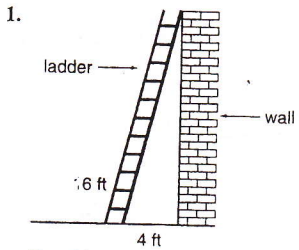
# 9-5

Name \_\_\_\_\_ Date \_\_\_\_\_

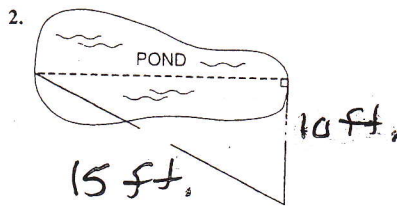
## Practice

### Using the Pythagorean Theorem

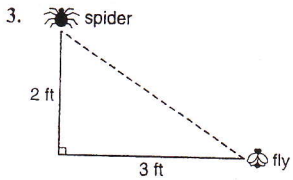
Write an equation that can be used to answer each question. Then solve. Round to the nearest tenth.



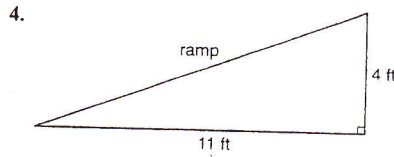
How high will the ladder reach?



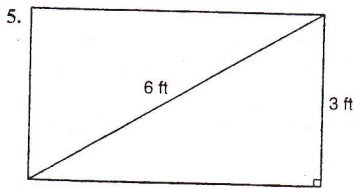
How far is it across the pond?



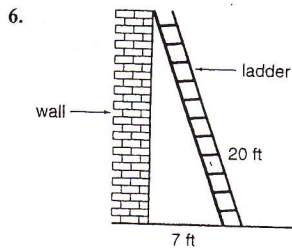
How far apart are the spider and fly?



How long is the ramp?



How long is the tabletop?



How high will the ladder reach?

For each Pythagorean triple, find two triples in the same family.

7.  $7 - 24 - 25$

8.  $3 - 4 - 5$

9.  $5 - 12 - 13$