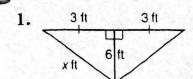
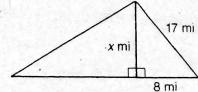


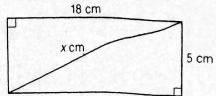
Write an equation you could use to solve for x. Then solve. Round decimal answers to the nearest tenth.



2.

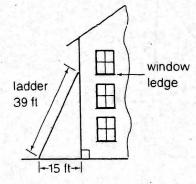


3.

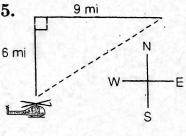


Solve. Round decimal answers to the nearest tenth.

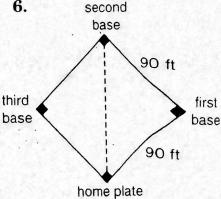
4.



5.



6.



How high is the top window ledge above the ground?

How far is the helicopter from its starting point.

How far does a baseball travel from home plate to second base?

In a right triangle, if a and b are the measures of the legs and c is the measure of the hypotenuse, find each missing measure. Round decimal answers to the nearest tenth.

7. 
$$b = 16, c = 20$$

8. 
$$a = 6, c = 14$$

**9.** 
$$a = 9, c = 16$$

**10.** 
$$b = 15, c = 20$$

11. 
$$a = 8, c = 12$$

**12.** 
$$b = 5$$
,  $c = 16$ 

The measurements of three sides of a right triangle are given. Determine whether each triangle is a right triangle.

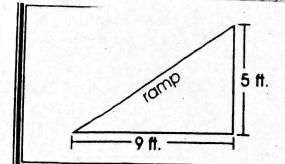
13. 8 km, 15 km, 17 km

14. 15 in., 20 in., 25 in.



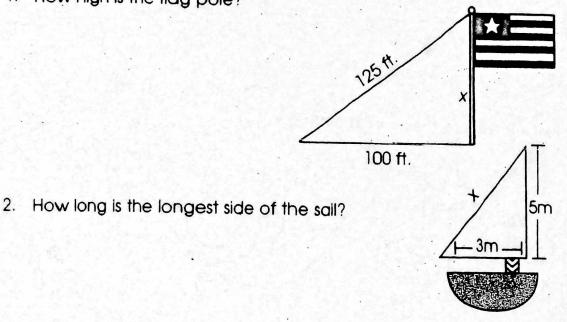
15. 8 mm, 9 mm, 15 mm

16. 10 mi, 20 mi, 30 mi



How long is the ramp?  $9^2 + 5^2 = \text{ramp}^2$ ramp = 10.3 feet

1. How high is the flag pole?



- 3. A 10-foot ladder is leaning against a house with its base 4 feet from the base of the house. How far up the house does the ladder touch the house? (Hint: Draw a picture.)
- 4. A 5-foot tall tree casts an 8-foot shadow on the ground. How far is it from the end of the shadow to the top of the tree? (Hint: Draw a picture.)
- 5. A guy wire is secured into the ground 15 feet from the base of a 36-foot pole. How long is the guy wire if it is attached at the top of the 36-foot pole? (Hint: Draw a picture.)
- 6. An airplane travels due east 65 miles, and then due north 72 miles. How far is the airplane from its starting point? (Hint: Draw a picture.)

