Wko Turks Out the Lights or Halloweek?

Cross out the letters above each correct answer. When you finish. write the remaining letters in the spaces at the bottom of the page.

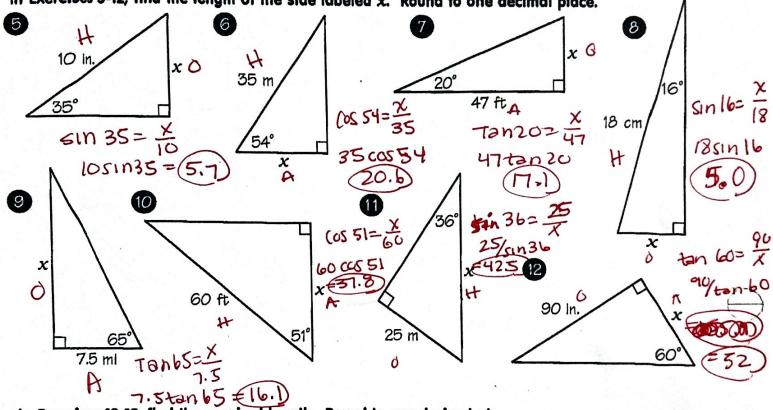
## 

In Exercises 1-4, solve the equation. Round your solution to two decimal places.

- $2 \tan 75^{\circ} = \frac{n}{80}$
- $3 \sin 48^{\circ} = \frac{7}{9}$
- $4\cos 6^\circ = \frac{92}{k}$

1551n22=5.12 806n75=298.56 7 51n48=9.42

In Exercises 5-12, find the length of the side labeled x. Round to one decimal place.



In Exercises 13-15, find the required length. Round to one decimal place.

- 13 When a 20-ft ladder is leaned against a wall it makes a 72° angle with the
  - ground. How high up on the wall does the ladder reach?

SIN 72 30

14 A ship is sailing toward a small island 700 mi away. If the ship is 2° off course, by how many miles will it miss the island?

A cable from the top of a 100-ft telephone tower makes a 50° angle with the ground. How long is

the cable?

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Using Trigonometric Ratios to Find Measures of Sides of Right Triangles

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