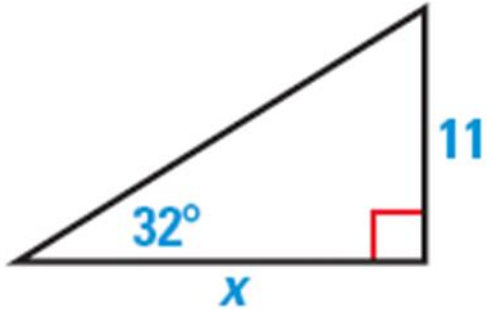


EX: Find the value of x to the nearest tenth.



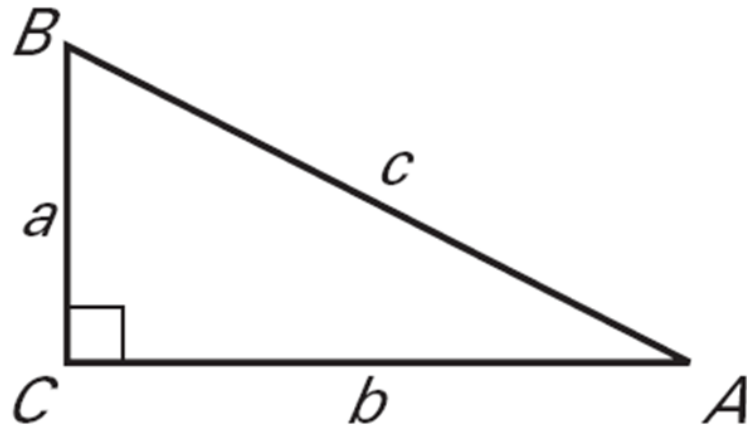
EX: Find the height of the lamppost to the nearest tenth.



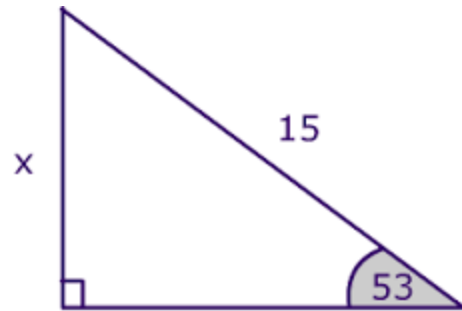
EX:

If $a = 5$ and $m \angle B = 11^\circ$, find the number of square units in the area of $\triangle ABC$ to the nearest tenth.

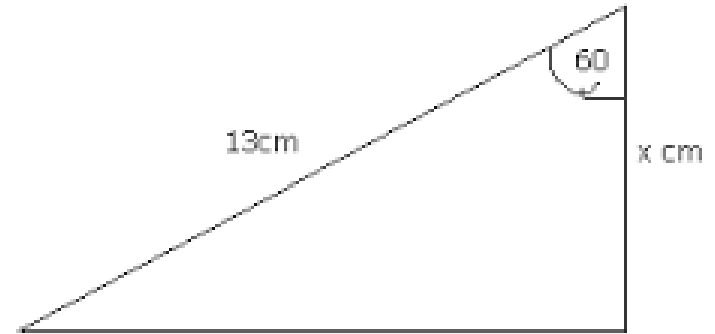
Use this diagram for Exercises 1- 4.



EX: Find the value of x to the nearest tenth.



www.mathwarehouse.com



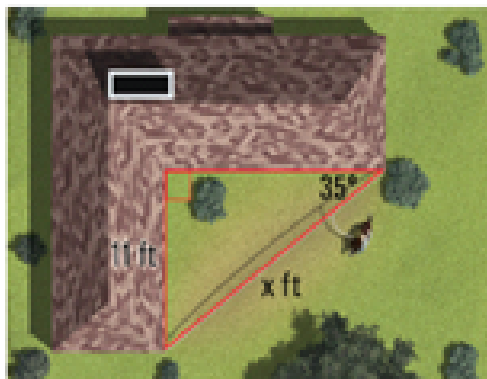
EX:

EXAMPLE 3

Use a trigonometric ratio to find a hypotenuse

DOG RUN

You want to string cable to make a dog run from two corners of a building, as shown in the diagram. Write and solve a proportion using a trigonometric ratio to approximate the length of cable you will need.



EX:

EXAMPLE 5

Find leg lengths using an angle of elevation

SKATEBOARD RAMP

You want to build a skateboard ramp with a length of 14 feet and an angle of elevation of 26° . You need to find the height and length of the base of the ramp.

