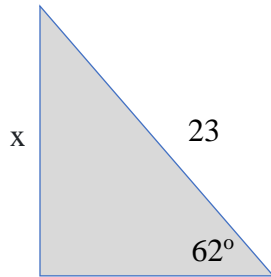


Station #1

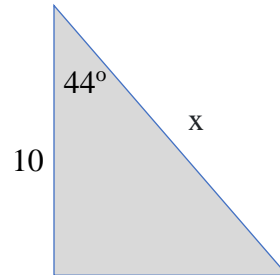
What is the value of x for each triangle below?

a.



Length of x ? _____

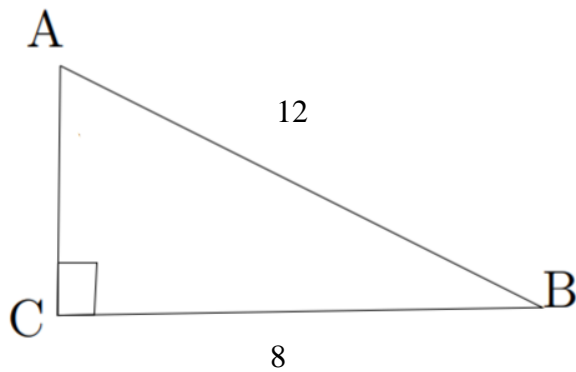
b.



Length of y ? _____

Station #2

Find the missing sides and angles for the triangle below



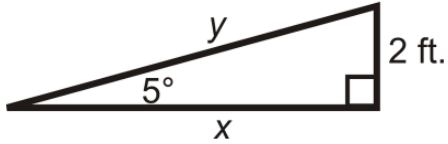
$$AB = 12 \quad \angle A =$$

$$BC = 8 \quad \angle B =$$

$$AC = \quad \angle C = 90^\circ$$

Station #3

A restaurant needs to build a wheelchair ramp for its customers. The angle of elevation for a ramp is recommended to be 5° . If the vertical distance from the sidewalk to the front door is two feet, what is the length of the ramp?



Station #4

Diego is flying his kite one afternoon and notices that he has let out the entire 120 ft of string. The angle his string makes with the ground is 52° . How high is his kite at this time?

Station #5

Factor the following.

$$3x^2 + 2x - 5$$

Station #6

Factor the following.

$$4x^2 + 12x + 9$$

Station #7

Factor the following.

$$5x^2 - 80$$

Station #1

What is the value of x for each triangle below?

a.

b.

Length of x ? _____

Length of y ? _____

Station #2

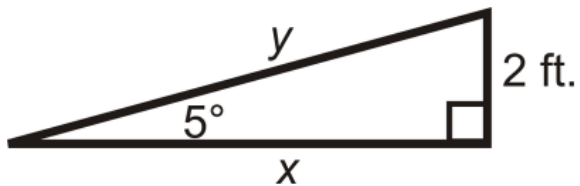
Find the missing sides and angles for the triangle

$$AB = 12 \quad \angle A =$$

$$BC = 8 \quad \angle B =$$

$$AC = \quad \angle C = 90^\circ$$

Station #3



Station #4

a. Draw a detailed picture of this situation.
Label it with the given information.

b. How high is the kite off of the ground?
Show all of your work.

Station #5

Station #6

Station #7