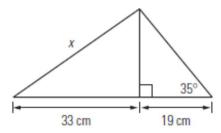
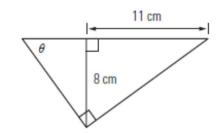
1. Calculate the indicated values. Round lengths to the nearest tenth and angles to the nearest degree.

a)



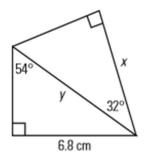
x = \_\_\_\_\_

b)



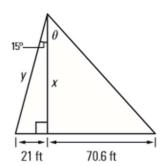
θ = \_\_\_\_\_

c)



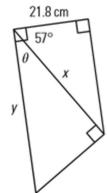
x = \_\_\_\_

d)



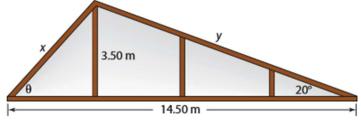
x = \_\_\_\_\_

e)



- x = \_\_\_\_\_
- y = \_\_\_\_\_
- θ = \_\_\_\_\_

2. Mary is helping to build a cabin. The diagram below shows the design of the roof trusses.



- a) How many right triangles do you see? \_\_\_\_\_
- b) Determine the value of the unknown angle  $(\theta)$ , to the nearest degree.

c) Determine the lengths of x and y, to the nearest hundredth.