

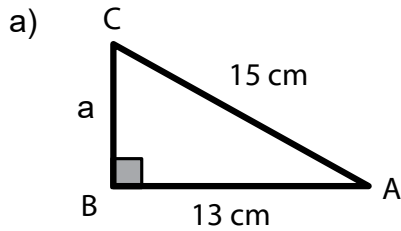
Apprenticeship Math 12
ASSIGNMENT: Solving Right Triangles

Name: _____

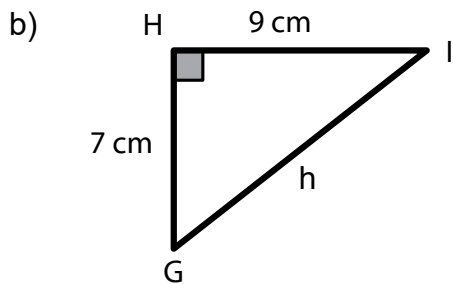
Date: _____

Round all lengths to the nearest hundredth and all angles to the nearest degree.

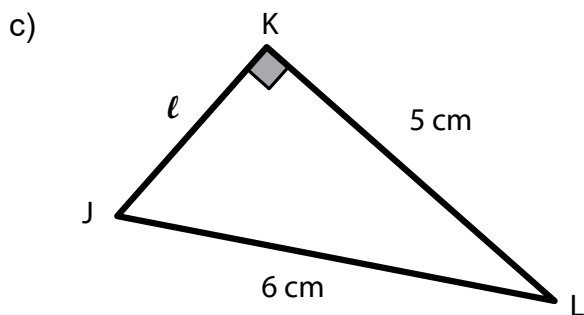
1. Solve the following triangles.



$a =$ _____
 $\angle A =$ _____
 $\angle C =$ _____

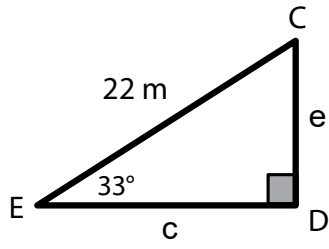


$h =$ _____
 $\angle G =$ _____
 $\angle I =$ _____



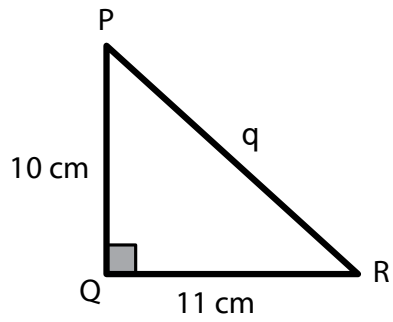
$l =$ _____
 $\angle J =$ _____
 $\angle L =$ _____

d)



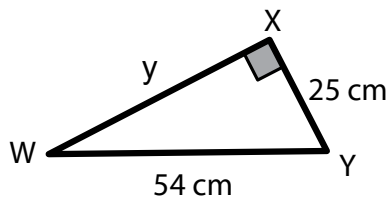
$$c = \underline{\hspace{2cm}}$$
$$e = \underline{\hspace{2cm}}$$
$$\angle C = \underline{\hspace{2cm}}$$

e)



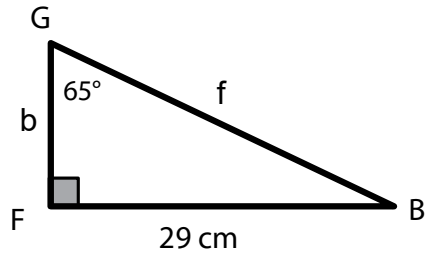
$$q = \underline{\hspace{2cm}}$$
$$\angle P = \underline{\hspace{2cm}}$$
$$\angle R = \underline{\hspace{2cm}}$$

f)



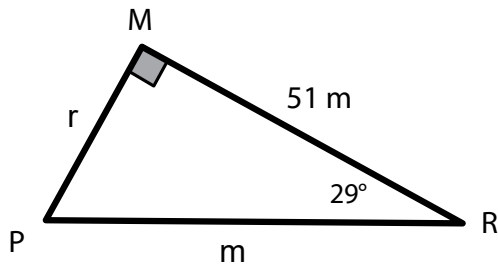
$$y = \underline{\hspace{2cm}}$$
$$\angle W = \underline{\hspace{2cm}}$$
$$\angle Y = \underline{\hspace{2cm}}$$

g)



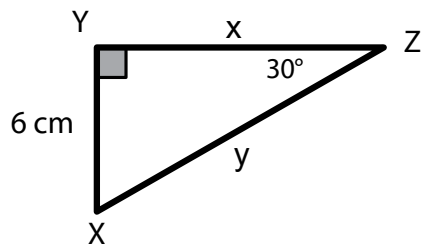
$$b = \underline{\hspace{2cm}}$$
$$f = \underline{\hspace{2cm}}$$
$$\angle B = \underline{\hspace{2cm}}$$

h)



$$m = \underline{\hspace{2cm}}$$
$$r = \underline{\hspace{2cm}}$$
$$\angle P = \underline{\hspace{2cm}}$$

i)



$$x = \underline{\hspace{2cm}}$$
$$y = \underline{\hspace{2cm}}$$
$$\angle X = \underline{\hspace{2cm}}$$

1. a) $a = 7.48 \text{ cm}$, $\angle A = 30^\circ$, $\angle C = 60^\circ$
- b) $h = 11.40 \text{ cm}$, $\angle G = 52^\circ$, $\angle I = 38^\circ$
- c) $\ell = 3.32 \text{ cm}$, $\angle J = 56^\circ$, $\angle L = 34^\circ$
- d) $c = 18.45 \text{ m}$, $e = 11.98 \text{ m}$, $\angle C = 57^\circ$
- e) $q = 14.87 \text{ cm}$, $\angle P = 48^\circ$, $\angle R = 42^\circ$
- f) $y = 47.86 \text{ cm}$, $\angle W = 28^\circ$, $\angle Y = 62^\circ$
- g) $b = 13.52 \text{ cm}$, $f = 32.00 \text{ cm}$, $\angle B = 25^\circ$
- h) $m = 58.31 \text{ m}$, $r = 28.27 \text{ m}$, $\angle P = 61^\circ$
- i) $x = 10.39 \text{ cm}$, $y = 12.00 \text{ cm}$, $\angle X = 60^\circ$