1.4 Primary Trig Ratios - Solving for a Missing Side

1) Solve the following equations.

a)
$$\frac{x}{4} = 20$$

 $\chi = 4(20)$
 $= 80$
b) $\frac{12}{x} = 3$
 $12 = 3x$
 $= 7$
c) $0.9848 = \frac{x}{5}$
 $5(0.9848) = x$
 $\chi = 4.9$
 $\chi = 4$

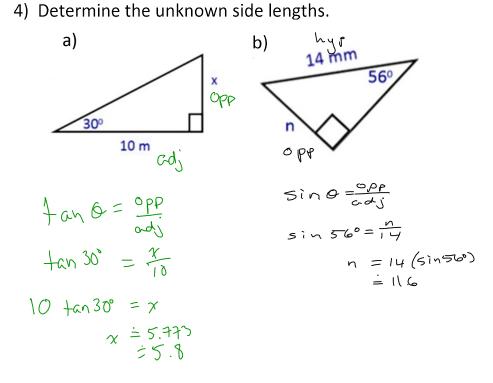
2) Evaluate each of the following trig ratios, to four decimal places.

a)
$$tan45^\circ = 1$$
 b) $cos44^\circ = 0.72$ c) $sin80^\circ = -0.9948$

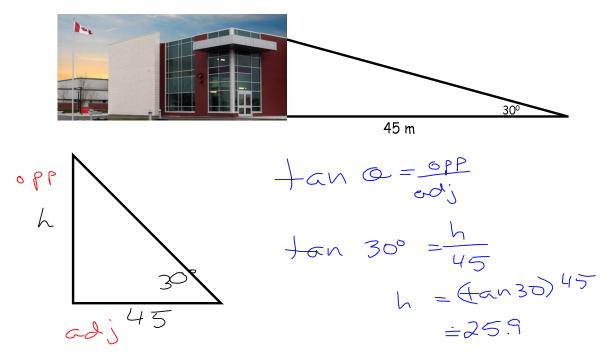
3) Determine the side measure, to 1 decimal place, for the following trig ratios.

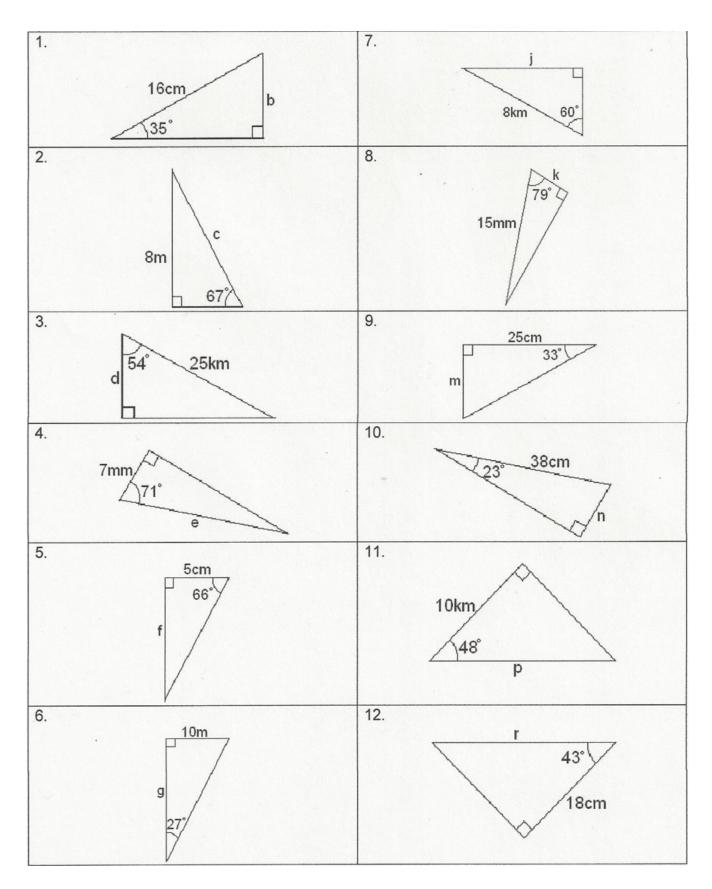
a)
$$\tan 52 = \frac{x}{4}$$

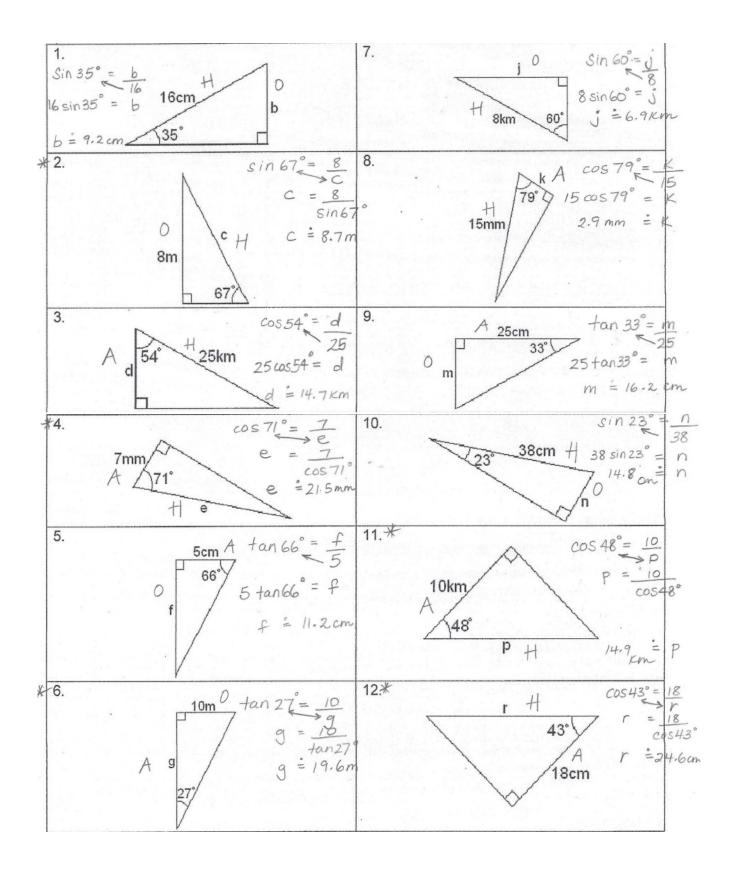
1.2799 = $\frac{x}{4}$
1.2799 = $\frac{x}{4}$
2.2079 = $\frac{8}{x}$
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5) From a point 45 m from the base of WCSS the <u>angle of elevation</u> to the top of the school is 30°. What is the height of the school to the nearest metre?







Homework

Set 1: p. 362 #3ce,7cd,13 p. 372 #3fg, 4fg,6e,7k,10ab,11cf,15

Set 2: p. 362#3c,7c,13,16

p. 372 #3f,4f,6e,7k,10ab,11cf,21