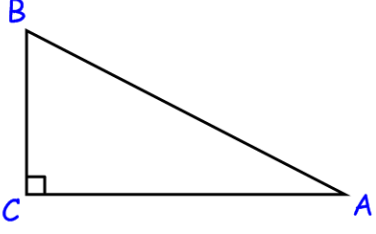


Name: _____

MBF3C – Trigonometry Assignment #1

1. Fill in the blanks. [9 marks]

Use the word bank below to fill in the blanks. Some words will be used more than once.

sin (angle) = _____		If the reference angle is A
cos (angle) = _____		a is the _____
tan (angle) = _____		b is the _____ c is the _____
Word Bank: opposite, adjacent, hypotenuse		

2. Evaluate on a calculator. **Round to 4 decimal places.** [6 marks]

Note: ensure your calculator is set to **degrees** by evaluations $\sin 45 \rightarrow$ answer should be 0.7071

sin 30° =	cos 25° =	tan 60° =
sin 72° =	cos 47° =	tan 15° =

3. Use your calculator to solve for the indicated angle. **Round to the nearest whole degree.** [6 marks]

Remember: When you are solving for an angle use the \sin^{-1} , \cos^{-1} and \tan^{-1} buttons!

sin A = 0.9063	cos B = 0.3746	tan C = 2.7286
sin D = 0.6231	cos E = 0.8524	tan F = 1.0000

4. Solve for the indicated angle. Show your intermediate step. [6 marks]

Round your final answer to the nearest whole degree.

$\sin G = \frac{4.6}{8.3}$	$\cos H = \frac{19.5}{39.2}$	$\tan I = \frac{65.5}{22.8}$
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Name: _____

5. Solve for the indicated side. Show your work! [12 marks]

Round your final answer to one decimal place.

$\sin 67^\circ = \frac{j}{19.4}$	$\cos 32^\circ = \frac{k}{42.6}$	$\tan 17^\circ = \frac{l}{96.2}$
$\sin 14^\circ = \frac{4.6}{m}$	$\cos 72^\circ = \frac{20.1}{n}$	$\tan 82^\circ = \frac{8.9}{o}$

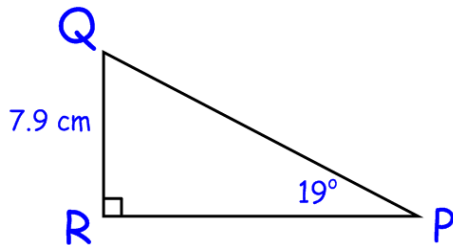
6. "Solve" each triangle: find the measures of all sides and angles!

Round side lengths to one decimal place and angles to the nearest whole degree.

Show all of your work!

[8 marks]

Show your work here



Provide your answers here

P = _____ p = _____

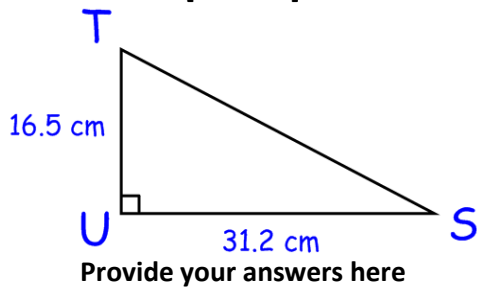
Q = _____ q = _____

R = _____ r = _____

Name: _____

Show your work here

[8 marks]



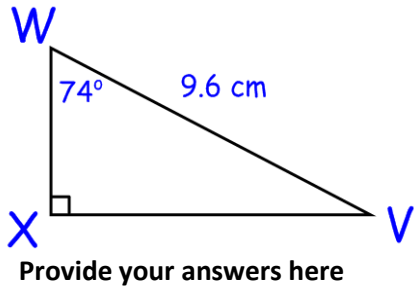
S = _____ s = _____

T = _____ t = _____

U = _____ u = _____

[8 marks]

Show your work here



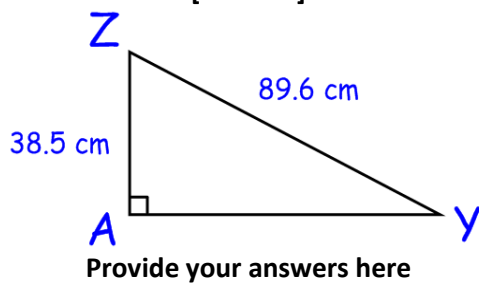
V = _____ v = _____

W = _____ w = _____

X = _____ x = _____

[8 marks]

Show your work here



Y = _____ y = _____

Z = _____ z = _____

A = _____ a = _____