

Year Ten Trigonometry Homework Sheet 1, Term 2 2015

/19

Name: _____

Due Date: Tuesday 21st April

1. Find the following values correct to 3 d. p

a) $\sin 27^\circ$

b) $\cos 80^\circ 14'$

c) $\tan 72^\circ 23' 46''$

2. Determine the value of θ in degrees and minutes for each of the following

a) $\tan \theta = 2.63$

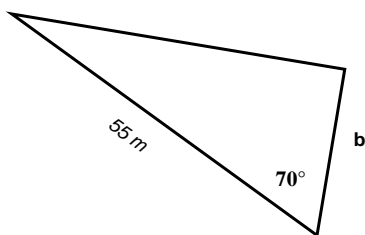
b) $\sin \theta = 0.973$

c) $\cos \theta = 0.314$

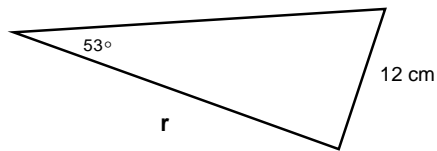
3. Explain how you remember the three ratios

4. Find the lengths of the unknown sides in the following right angled triangles:

a

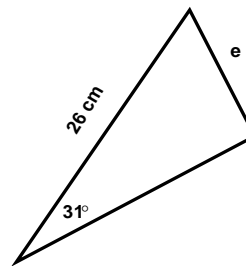


b)



(3)

c)



(3)

5. Sam aims to swim straight across an 80 m stream but the current takes him on an angle of 17° to the direct route across. (6)

(3) Draw a diagram and work out how far he actually swims to get across the stream.

(4)