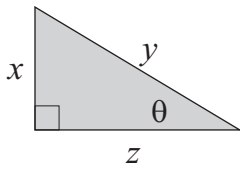
Master Maths 9 Worksheet 76
Tangent

76

Name: _____

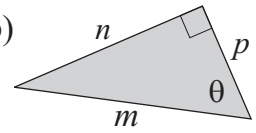
1. Find tan θ in the following triangles and write in fraction form

(a)



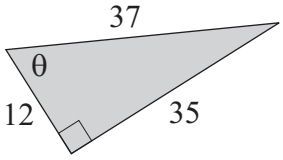
tan θ = ____

(b)



tan θ = ____

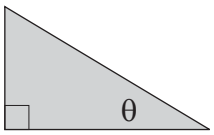
2. Find tan θ in the following triangle, write as a fraction and then calculate correct to four decimal places.



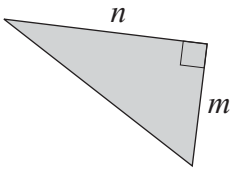
tan θ = ____

=

3. If tan θ = $\frac{c}{d}$ mark sides c and d on this triangle.



4. If tan θ = $\frac{m}{n}$ mark the angle θ on this triangle.



5. Use a calculator to find the following values correct to four decimal places.

(a) tan 74°

(b) tan 25°

(c) tan 38°

(d) tan 51.8°

6. Rearrange the following equation to make x and y the subject.

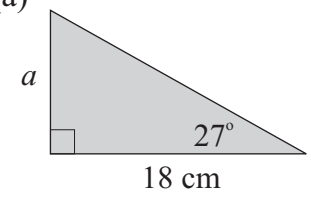
$\tan\theta = \frac{x}{y}$

$x =$

$y =$

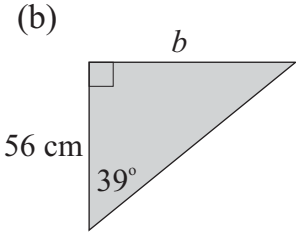
7. Find the unknown lengths in the following triangles.
Give answers correct to one decimal place.

(a)



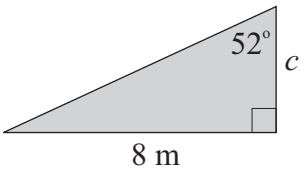
$a =$

(b)



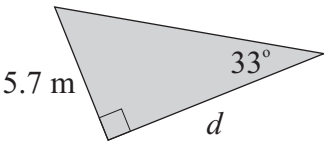
$b =$

(c)



$c =$

(d)



$d =$