Master Maths 10 Worksheet 58
Trigonometry 2 - SOHCAHTOA

58

Name: _____

1. Use a calculator to find the following values correct to four decimal places. (Check calculator is in ***DEGREE*** mode).

(a) tan 37° (b) sin 56.3°

(c) cos $21^{\circ}56'$ (d) sin $41^{\circ}23'51''$

(e) tan $25^{\circ}35'27.9''$ (f) cos $9^{\circ}33.2''$

2. Use a calculator to find the following values correct to four decimal places. (Check calculator is in ***RADIAN*** mode).

(a) cos 0.32^{c} (b) tan 1.38^{c}

3. Use a calculator to find the following values correct to four decimal places. (Check calculator is in the correct mode).

(a) cos 0.54^{c} (b) tan 28.78°

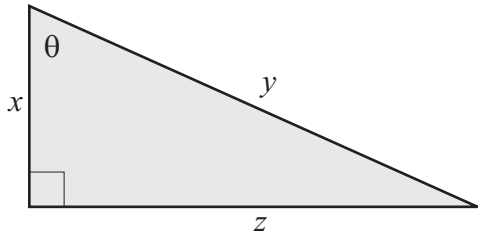
(c) sin $15^{\circ}24'$ (d) cos 1.13^{c}

4. For the triangle below:

(a) which side is the hypotenuse?

(b) which side is opposite angle θ?

(c) which side is adjacent to angle θ?

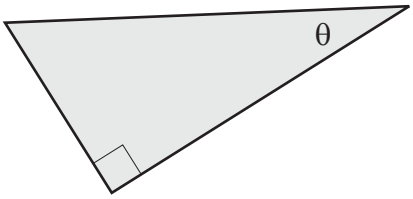


5. On the triangle below label the sides:

(a) ***H*** - hypotenuse

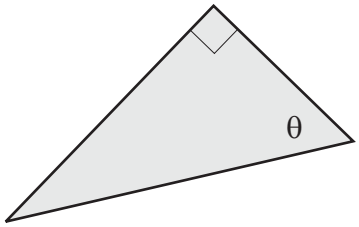
(b) ***O*** - opposite angle θ

(c) ***A*** - adjacent to angle θ



6. For the triangle below the sides are *m*, *n* and *p*. Label the sides given that:

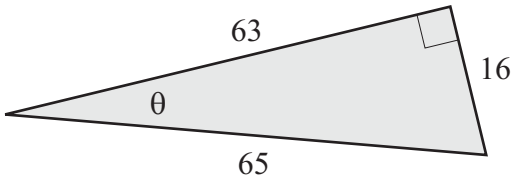
$\tan\theta = \frac{p}{m}$



7. For the triangle below find sin θ, cos θ and tan θ. Give answer as a:

(i) fraction

(ii) decimal correct to four decimal places



sin θ (i) (ii)

cos θ (i) (ii)

tan θ (i) (ii)