

# Solve basic Trigonometry equations

Maths

Mrs Dennett



# Solve basic Trigonometry equations

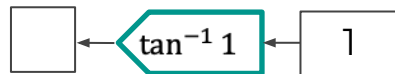
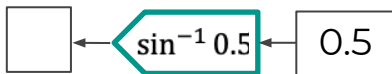
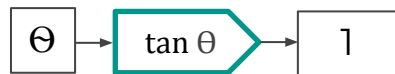
1. Using your calculator find the following values to 3 decimal places.

a)  $\sin(12^\circ)$     b)  $\cos(30^\circ)$     c)  $\sin(42^\circ)$

d)  $\tan(12^\circ)$     e)  $\sin(60^\circ)$     f)  $\tan(26^\circ)$

2. Fill in the blanks.

a)                      b)



3. Using your calculator, work out the size of angle  $\theta$  in each case.

Give your answers to one decimal place.

a)  $\sin \theta = 0.22$                       e)  $\tan \theta = 0.323$

b)  $\cos \theta = 0.22$                       f)  $\cos \theta = 0.045$

c)  $\tan \theta = 0.22$                       g)  $\cos \theta = \frac{5}{18}$

d)  $\sin \theta = 0.6$                       h)  $\tan \theta = \frac{3}{7}$



# Answers



# Solve basic Trigonometry equations

1. Using your calculator find the following values to 3 decimal places.

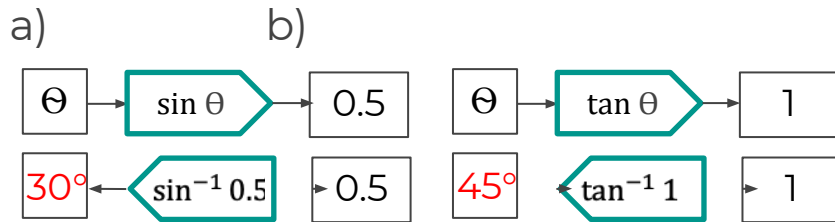
a)  $\sin(12^\circ)$       b)  $\cos(30^\circ)$       c)  $\sin(42^\circ)$

$0.208$        $0.866$        $0.669$

d)  $\tan(12^\circ)$       e)  $\sin(60^\circ)$       f)  $\tan(26^\circ)$

$0.213$        $0.866$        $0.488$

2. Fill in the blanks.



3. Using your calculator, work out the size of angle  $\theta$  in each case.

Give your answers to one decimal place.

a)  $\sin \theta = 0.22$                       e)  $\tan \theta = 0.323$   
 $12.7^\circ$                                        $17.9^\circ$

b)  $\cos \theta = 0.22$                       f)  $\cos \theta = 0.045$   
 $77.3^\circ$                                        $87.4^\circ$

c)  $\tan \theta = 0.22$                       g)  $\cos \theta = \frac{5}{18}$   
 $12.4^\circ$                                        $73.9^\circ$

d)  $\sin \theta = 0.6$                           h)  $\tan \theta = \frac{3}{7}$   
 $36.9^\circ$                                        $23.2^\circ$

