

EVALUATE:

- ① $14.8 \times \tan 71^\circ 52' =$
- ② $\frac{41 \times \sin 65^\circ}{\sin 27^\circ} =$
- ③ $\cos 57^\circ + \sin 57^\circ =$
- ④ $\tan^2 38^\circ 30' =$
- ⑤ $5 \times \cos^2 46^\circ + 5 \times \sin^2 46^\circ =$

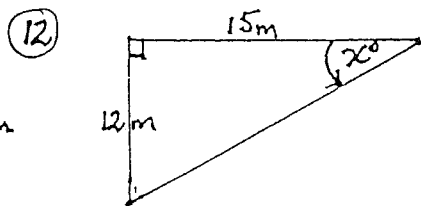
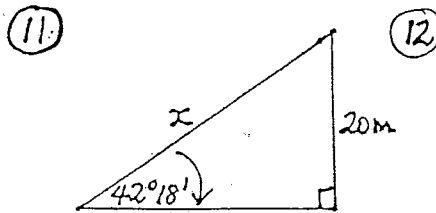
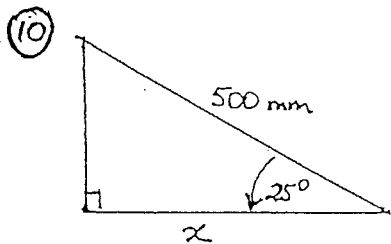
FIND θ in "decimal degrees" if:-

- ⑥ $\tan \theta = 3.45$ ⑦ $\sin \theta = 0.94$
 $\therefore \theta = \tan^{-1}(3.45)$
 $\therefore \theta =$ $\therefore \theta =$

FIND θ in degrees & minutes if:-

- ⑧ $2 \times \cos \theta = 0.987$ ⑨ $\tan \theta = \frac{4.81}{3.26}$

FIND x in the figures below:-

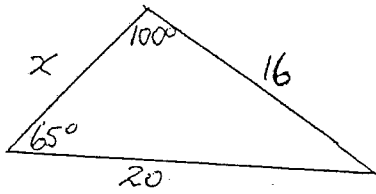


- ⑬ A ladder 12 metres long rests against a wall of a building, with its base 3.5 metres from the base of the wall. Find the angle the ladder makes with the ground.

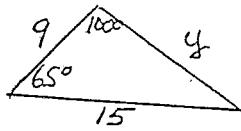
ANSWERS:

1/ 45.19 2/ 81.85 3/ 1.383 4/ 0.6327 5/ 1 6/ 73.84 7/ 70.05
 8/ 60.26 9/ 55.52 10/ 453.2mm 11/ 29.78m 12/ 38.66 (38.40) 13/ 73.04 (73.31)

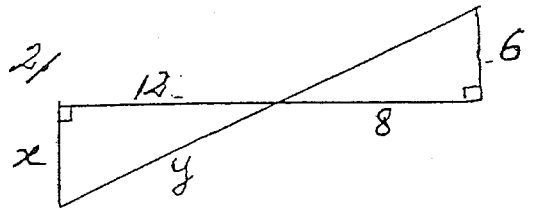
1/



Find x & y



2/



Find x & y .

3/

Use your calculator to evaluate:

a) $\sin 30^\circ =$

d) $\cos 150^\circ$

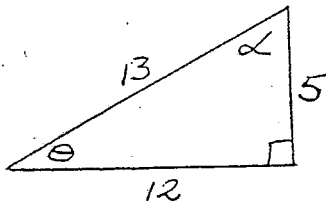
b) $\tan 71^\circ =$

e) $\cos 84^\circ$

c) $\sin 46.5^\circ =$

f) $\tan 25^\circ 45'$

4/



From the diagram, give the following ratios:

a) $\tan \theta =$

d) $\tan \alpha =$

b) $\sin \alpha =$

e) $\cos \theta =$

c) $\sin \theta =$

f) $\cos \alpha =$

5/ Find θ if:-

(give your answers to the nearest degree)

a) $\sin \theta = 0.6$

b) $\cos \theta = 0.53$

c) $\tan \theta = \frac{3}{4}$

ANSWERS

- 1/ $x = 9$
- 2/ $x = 12$
- 3/ 0.5
- 4/ 0.5
- 5/ 0.5
- 6/ 0.5
- 7/ 0.5
- 8/ 0.5
- 9/ 0.5
- 10/ 0.5
- 11/ 0.5
- 12/ 0.5
- 13/ 0.5
- 14/ 0.5
- 15/ 0.5
- 16/ 0.5
- 17/ 0.5
- 18/ 0.5
- 19/ 0.5
- 20/ 0.5
- 21/ 0.5
- 22/ 0.5
- 23/ 0.5
- 24/ 0.5
- 25/ 0.5
- 26/ 0.5
- 27/ 0.5
- 28/ 0.5
- 29/ 0.5
- 30/ 0.5
- 31/ 0.5
- 32/ 0.5
- 33/ 0.5
- 34/ 0.5
- 35/ 0.5
- 36/ 0.5
- 37/ 0.5
- 38/ 0.5
- 39/ 0.5
- 40/ 0.5
- 41/ 0.5
- 42/ 0.5
- 43/ 0.5
- 44/ 0.5
- 45/ 0.5
- 46/ 0.5
- 47/ 0.5
- 48/ 0.5
- 49/ 0.5
- 50/ 0.5

