

TUTORIAL SHEET - LESSON (24)

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 $5 \times \cos^2 46^{\circ} + 5 \times \sin^2 46^{\circ} =$

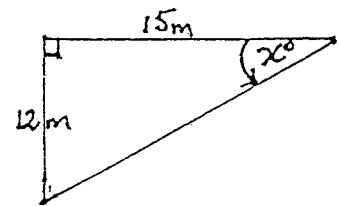
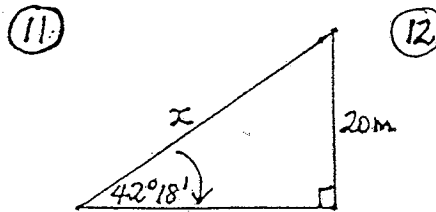
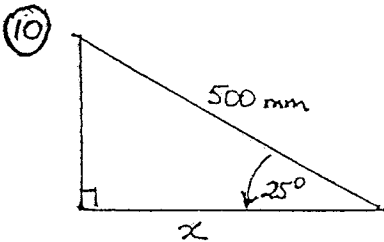
FIND θ in "decimal degrees" if:-

- 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:-



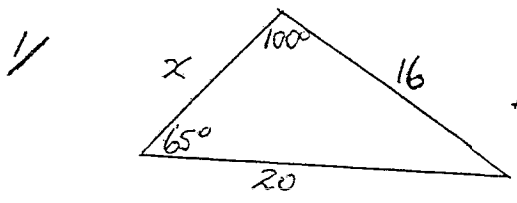
- ⑬ A ladder 12 metres long rests against a wall of a building, with its base 3.5 metres from the base of the wall. Find the angle the ladder makes with the ground.

ANSWERS:

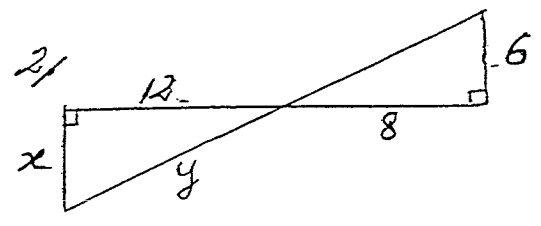
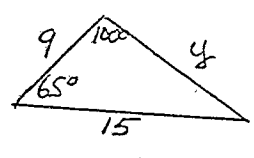
1/ 45.19 2/ 81.85 3/ 1.383 4/ 0.6327 5/ 1 6/ 73.87 7/ 70.05 8/ 60.26 9/ 55.52 10/ 453.2mm 11/ 29.72m 12/ 38.66 (38.40) 13/ 73.04 (73.31)

WORKSHEET - LESSON 23

T.P.C



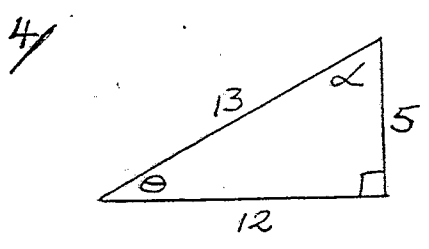
Find $x = y$



Find x & y .

3/ Use your calculator to evaluate:

- a) $\sin 30^\circ =$
- b) $\tan 71^\circ =$
- c) $\sin 46.5^\circ =$
- d) $\cos 150^\circ$
- e) $\cos 84^\circ$
- f) $\tan 25^\circ 45'$



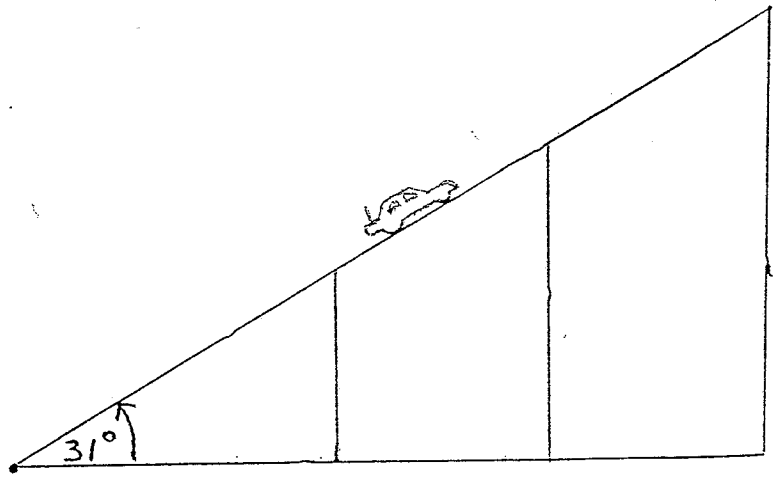
From the diagram, give the following ratios:

- a) $\tan \theta =$
- b) $\sin \alpha =$
- c) $\sin \theta =$
- d) $\tan \alpha =$
- e) $\cos \theta =$
- 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

	5/3	
	12/13	
	12/5	
37°	5/3	
58°	12/13	
37°	14/5	12/13
	5/12	4/5
	9=15	
	2/ x=9	

3/	0.5
	2.904
	0.725
	-0.866
	0.105
	0.482