1. Calculate the angle to the nearest degree:

a) sin D = 0.5491
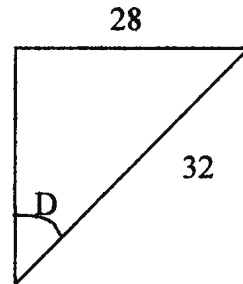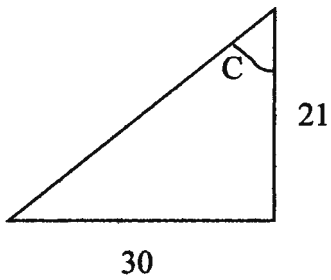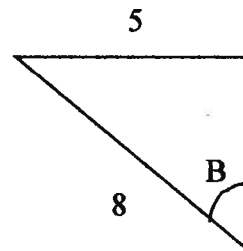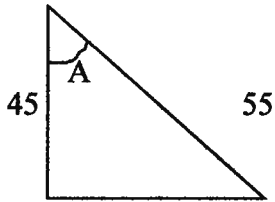
b) cos F = 0.8964

2. In each of the following find the missing angle:
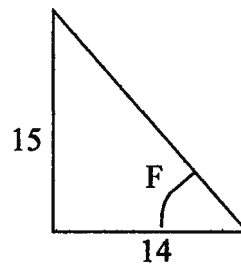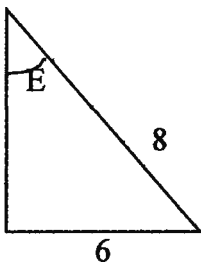
3. What is the angle of depression from the top of a 65-metre cliff to an object 48 metres from its base?

4. At what angle to the ground must you place a support if it is 6.8 metres long and must reach 4.2 metres up the side of a tower?

5. At what angle to the ground is an 8-metre long conveyor belt if it is fastened 5 metres from the base of a loading ramp?

8 m

H

5 m

6. Find a, b, c, d.

c

25 cm

a

15 cm

40°

b
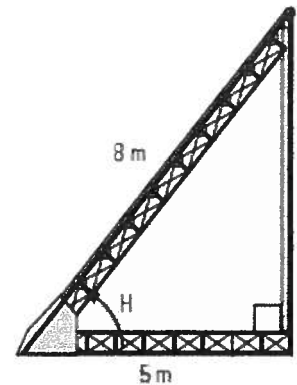
d
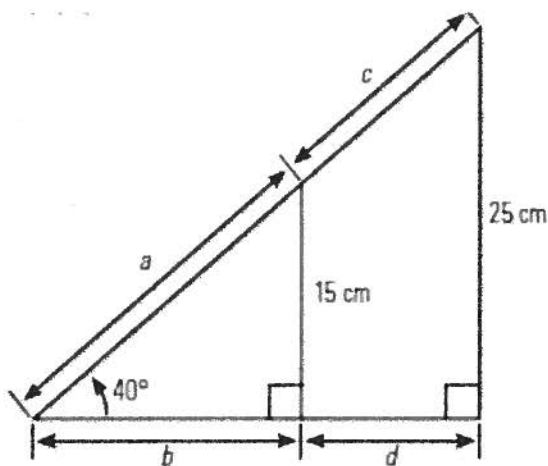
7. Solve the following Triangles (find all the angles and all the sides of each triangle)

a)

S

1.5 m

R

2.8 m

T

b)

L

9.5 cm

6.8 cm

M

N