1) Find the exact value (3s.f) of the following

a) sin 35 °

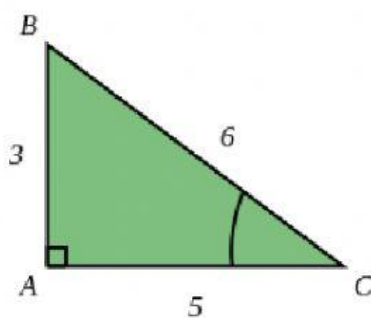b) cos 78°

c) tan 39 °

2) Complete the following table with the *exact* values (3s.f).

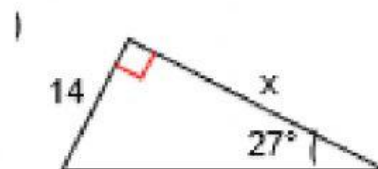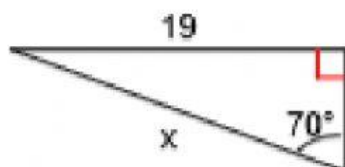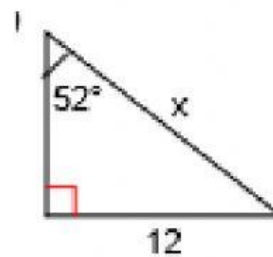|	30 °	45 °	60 °
Sine			
Cosine			
Tangent			

3) Express the sine of angle ACB as a ratio of the sides of triangle ABC (3s.f)

sin C =

4) Calculate the missing sides on the triangles below. (3s.f)
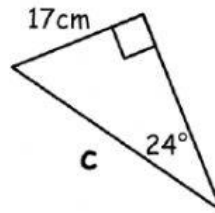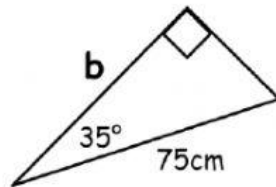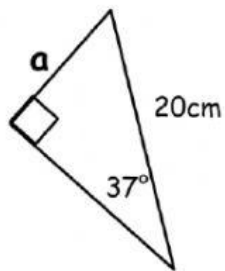
a 20cm 37°

b 35° 75cm

17cm **c** 24°

90cm **d** 38°

x 39° 18

20 41° x

45° x 13

52° x 12

19 70° x

14 x 27°
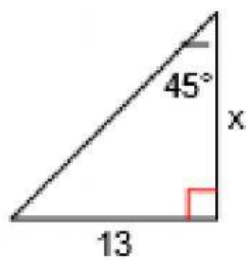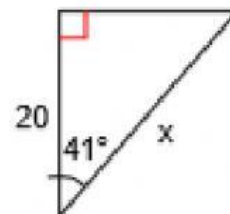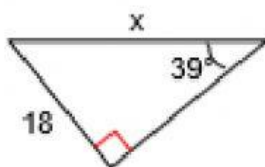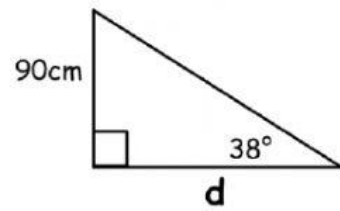
5) A ladder of length 3.5m rests against a vertical wall and makes an angle of 40° with the floor. How far up the wall does the ladder reach?

6) A rope 10m long from the top of a vertical pole to a point on the ground makes an angle of 23° with the pole. How high is the pole?