

Maths HL7 Extended - Trigonometric equations, Sine and Cosine rules

Solve these equations for angles in the range $0^\circ \leq x \leq 180^\circ$

1 $\cos x = 0.2$

2 $\cos x = 0.7$

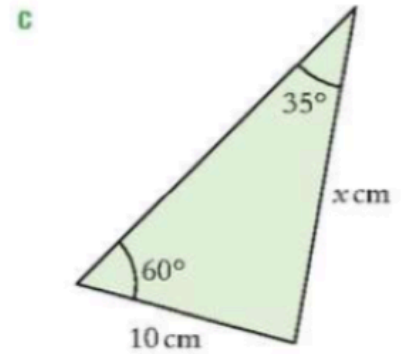
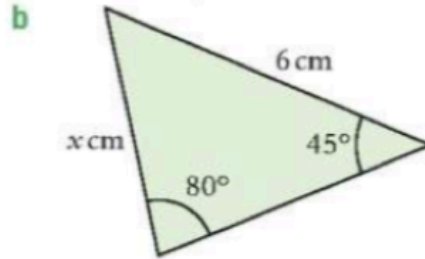
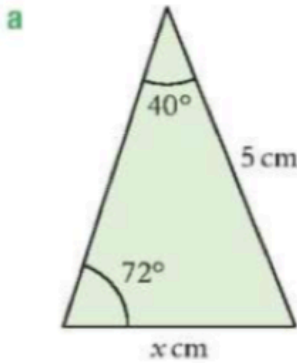
3 $\sin x = 0.88$

4 $\cos x = -0.35$

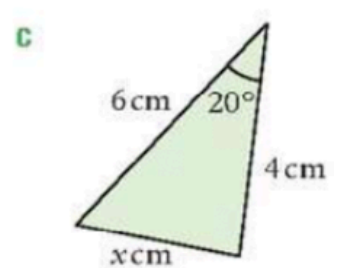
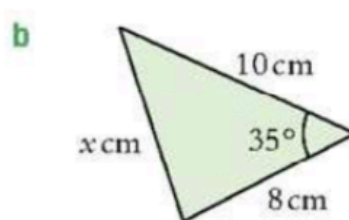
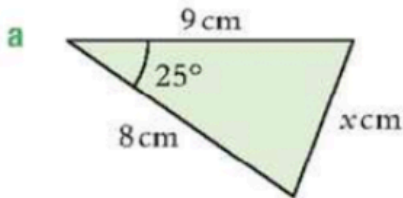
5 $\sin x = 0.2$

6 $\sin x = 1$

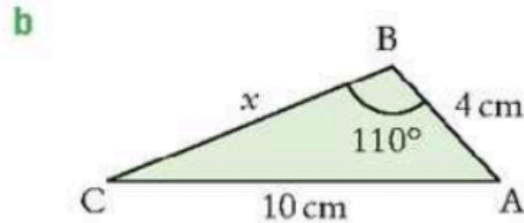
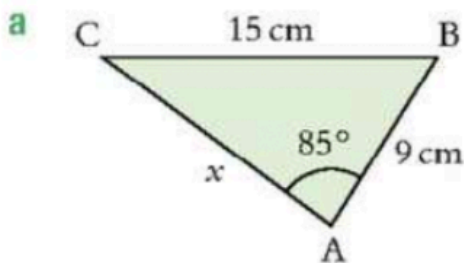
7 Find the value of x for each of these triangles.



8 Find the length of x for each of these triangles.



9 Find the length of x for each of these triangles.



10 ABCD is a quadrilateral.

a Find the length of BD.

b Calculate the size of angle BCD.

