4

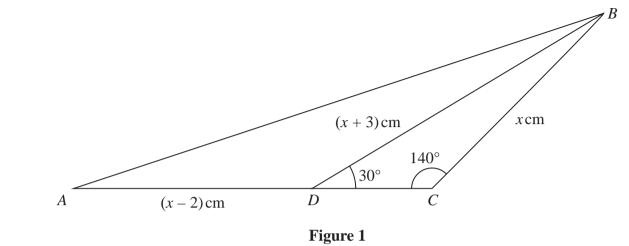


Figure 1 shows a sketch of triangle ABD and triangle BCD

(a) show that x = 10.5 correct to 3 significant figures.

- ADC is a straight line
 - oc is a straight in
- $BD = (x+3) \,\mathrm{cm}$
- BC = x cm
- angle $BDC = 30^{\circ}$

Given that

- angle $BCD = 140^{\circ}$
- Circum also that AD = (1, 2) and
- Given also that AD = (x 2) cm (b) find the length of AB, giving your answer to 3 significant figures.

(2)

(3)