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	(Total for Question 3 is 8 marks)



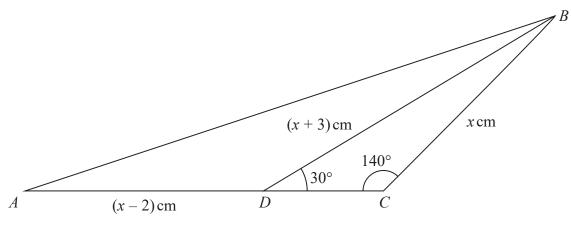


Figure 1

Figure 1 shows a sketch of triangle ABD and triangle BCD

Given that

- ADC is a straight line
- BD = (x + 3) cm
- BC = x cm

- (a) show that x = 10.5 correct to 3 significant to these. Given also that **(3)**

r answer to 3 significant figures.

**(2)** 





Question 5 continued	
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9.

$$p = \log_a 16$$

$$q = \log_a 25$$

where a is a constant.

Find in terms of p and/or q,

(a) log<sub>a</sub> 256

**(1)** 

(b) log<sub>a</sub> 100

**(2)** 

(c)  $\log_a 80 \times \log_a 3.2$ 

**(2)** 

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