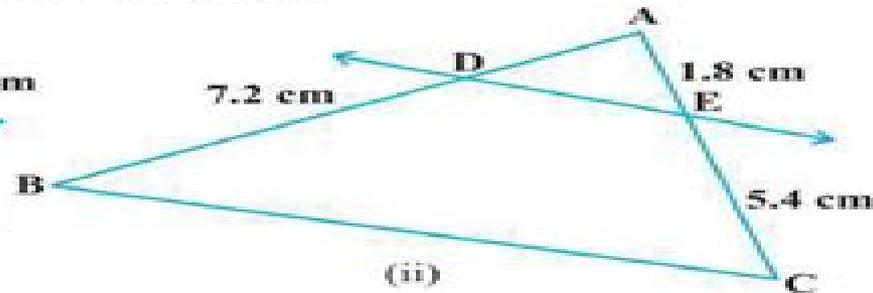
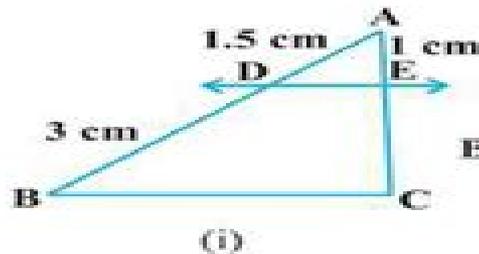


EXERCISE 6.2

1. In figure, (i) and (ii), $DE \parallel BC$. Find EC in (i) and AD in (ii).



Solution:

(i) Given, in $\triangle ABC$, $DE \parallel BC$

$\therefore AD/DB = AE/EC$ [Using Basic proportionality theorem]

$$\Rightarrow 1.5/3 = 1/EC$$

$$\Rightarrow EC = 3/1.5$$

$$EC = 3 \times 10/15 = 2 \text{ cm}$$

Hence, $EC = 2 \text{ cm}$.

(ii) Given, in $\triangle ABC$, $DE \parallel BC$

$\therefore AD/DB = AE/EC$ [Using Basic proportionality theorem]

$$\Rightarrow AD/7.2 = 1.8 / 5.4$$

$$\Rightarrow AD = 1.8 \times 7.2/5.4 = (18/10) \times (72/10) \times (10/54) = 24/10$$

$$\Rightarrow AD = 2.4$$

Hence, $AD = 2.4 \text{ cm}$.

2. E and F are points on the sides PQ and PR, respectively of a $\triangle PQR$. For each of the following cases, state whether $EF \parallel QR$.

(i) $PE = 3.9 \text{ cm}$, $EQ = 3 \text{ cm}$, $PF = 3.6 \text{ cm}$ and $FR = 2.4 \text{ cm}$

(ii) $PE = 4 \text{ cm}$, $QE = 4.5 \text{ cm}$, $PF = 8 \text{ cm}$ and $RF = 9 \text{ cm}$

(iii) $PQ = 1.28 \text{ cm}$, $PR = 2.56 \text{ cm}$, $PE = 0.18 \text{ cm}$ and $PF = 0.63 \text{ cm}$

Solution:

Given, in $\triangle PQR$, E and F are two points on side PQ and PR, respectively. See the figure below;

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C Cleary



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