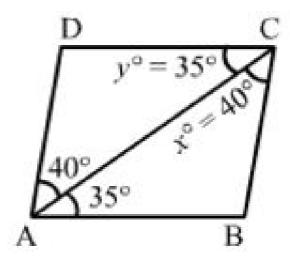


Exercise 14A

$$\begin{array}{ccc} \therefore & \mathbf{x} = 40 \\ \mathbf{y} = 35 \end{array}$$



## Q14

## Answer:

Given:

AB CD

$$\angle CAB + \angle BAE = 180^{\circ}$$

or 
$$125^{\circ} + x^{\circ} = 180^{\circ}$$

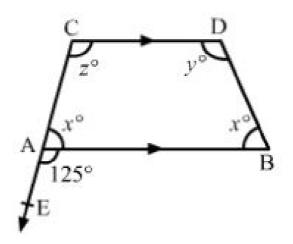
or 
$$x = 55$$

 $x+z=180\,^{\circ}$  (consecutive interior angles on the same side of transversal are supplementary)

z = 180 - x = 180 - 55 = 125

 $y + x = 180^{\circ}$  (consecutive interior angles on the same side of transversal are supplementary)

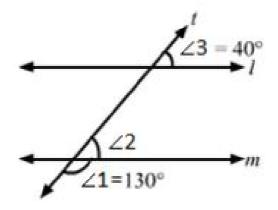
y = 180 - x = 180 - 55 = 125

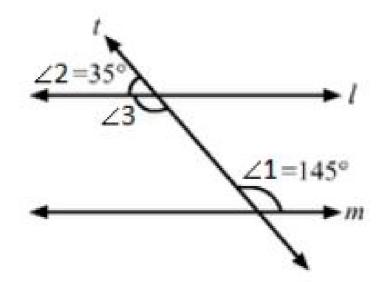


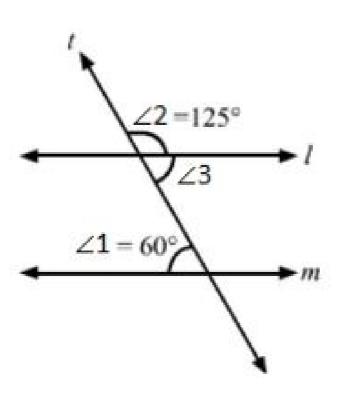
## Q15

## Answer:

(i) 
$$\angle 1 + \angle 2 = 180$$
 (linear pair)  
or  $130^{\circ} + \angle 2 = 180^{\circ}$   
or  $\angle 2 = 50^{\circ} \neq 40^{\circ} = \angle 3$   
 $\therefore 1 \not\parallel m$   
(ii)  $\angle 2 + \angle 3 = 180^{\circ}$  (linear pair)  
 $35^{\circ} + \angle 3 = 180^{\circ}$   
 $\angle 3 = 145^{\circ} = 145^{\circ} = \angle 1$   
 $\therefore 1 \mid\mid m$   
(iii)  $\angle 2 + \angle 3 = 180$  (linear pair)  
 $\angle 3 = 180^{\circ} - 125^{\circ} = 55^{\circ}$   
 $\angle 3 = 55^{\circ} \neq 60^{\circ} = \angle 1$   
 $\therefore 1 \not\parallel m$ 







\*\*\*\*\*\*\*\*\*\* END \*\*\*\*\*\*\*\*