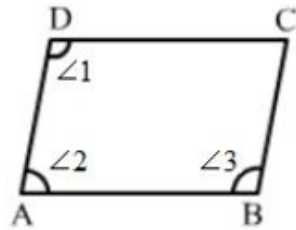




Exercise 14A



Q12

Answer :

Given :

$$l \parallel m$$

$$p \parallel q$$

$$\angle 1 = 65^\circ$$

$$\therefore \angle 1 = \angle a = 65^\circ \quad (\text{vertically opposite angles})$$

$$\angle a + \angle d = 180^\circ \quad (\text{consecutive interior angles on the same side of a transversal are supplementary})$$

$$\text{or } \angle d = 180^\circ - 65^\circ = 115^\circ$$

$$\angle c + \angle d = 180^\circ \quad (\text{consecutive interior angles on the same side of a transversal are supplementary})$$

$$\text{or } \angle c = 180^\circ - 115^\circ = 65^\circ$$

$$\angle c + \angle b = 180^\circ \quad (\text{consecutive interior angles on the same side of a transversal are supplementary})$$

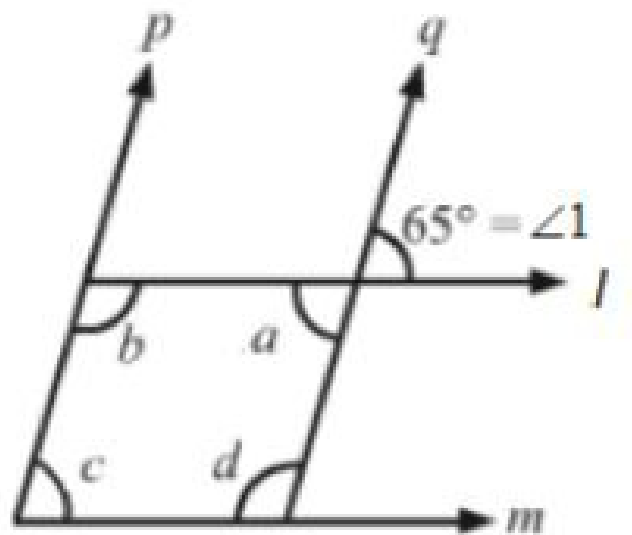
$$\text{or } \angle b = 180^\circ - 65^\circ = 115^\circ$$

$$\therefore \angle a = 65^\circ$$

$$\angle b = 115^\circ$$

$$\angle c = 65^\circ$$

$$\angle d = 115^\circ$$



Q13

Answer :

Given :

$AB \parallel DC$

$AD \parallel BC$

$\angle BAC = 35^\circ$

$\angle CAD = 40^\circ$

$\therefore \angle BAC = y = 35^\circ$ (alternate angles when $AB \parallel DC$)

$\angle CAD = x = 40^\circ$ (alternate angles when $AD \parallel BC$)

***** END *****