

Understanding shapes-II Quadrilaterals Ex 16.1 Q7

Answer:

Let x be the fourth angle.

Since, the sum of all angles of a quadrilateral is 360°, we have:

$$80^{\circ} + 80^{\circ} + 80^{\circ} + x = 360^{\circ}$$

$$\Rightarrow 240^{\circ} + x = 360^{\circ}$$

$$\Rightarrow x = 120^{\circ}$$

... The fourth angle is 120°.

Understanding shapes-II Quadrilaterals Ex 16.1 Q8

Answer:

Let x be the measure of each angle.

Since, the sum of all the angles of a quadrilateral is 360°, we have:

$$x^{\circ} + x^{\circ} + x^{\circ} + x^{\circ} = 360^{\circ}$$

$$\Rightarrow 4x^{\circ} = 360^{\circ}$$

$$\Rightarrow x^{\circ} = 90^{\circ}$$

... The measure of each angle is 90°.

Understanding shapes-II Quadrilaterals Ex 16.1 Q9

Answer:

Let x be the measure of each angle.

Since, the sum of all the angles of a quadrilateral is 360°, we have:

$$65^{\circ} + 65^{\circ} + x^{\circ} + x^{\circ} = 360^{\circ}$$

$$\Rightarrow 2x^{\circ} + 130^{\circ} = 360^{\circ}$$

$$\Rightarrow 2x^{\circ} = 230^{\circ}$$

$$\Rightarrow x^{\circ} = 115^{\circ}$$

... The measure of each angle is 115°.

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