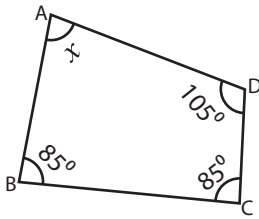


Angles in Quadrilateral

Example:



Sum of the interior angles = 360°

$$\text{Sum of the interior angles} = 85^\circ + 105^\circ + x + 85^\circ$$

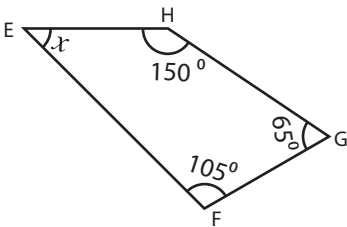
$$360^\circ = 275^\circ + x$$

$$x = 360^\circ - 275^\circ$$

$$x = \mathbf{85^\circ}$$

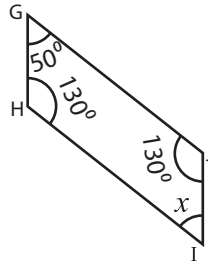
Find the unknown angle in each quadrilateral.

1)



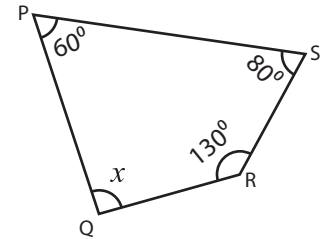
$x = \text{_____}$

2)



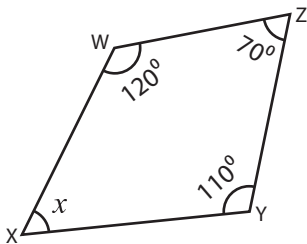
$x = \text{_____}$

3)



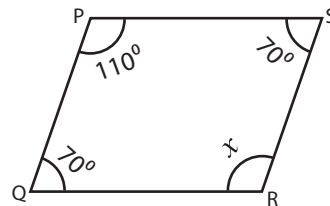
$x = \text{_____}$

4)



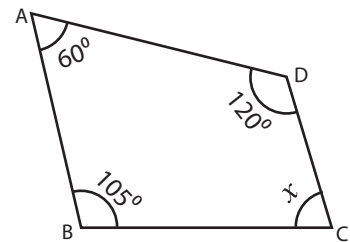
$x = \text{_____}$

5)



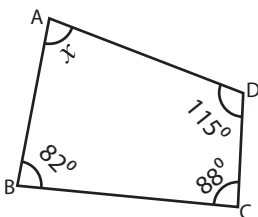
$x = \text{_____}$

6)



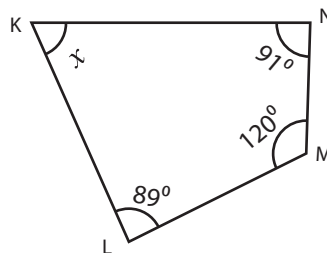
$x = \text{_____}$

7)



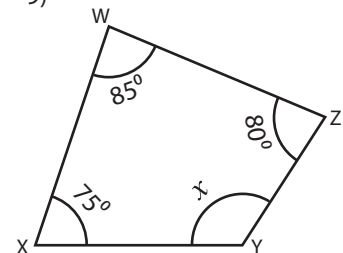
$x = \text{_____}$

8)



$x = \text{_____}$

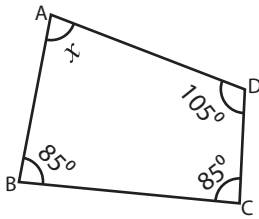
9)



$x = \text{_____}$

Answer Key

Example:



Sum of the interior angles = 360°

$$\text{Sum of the interior angles} = 85^\circ + 105^\circ + x + 85^\circ$$

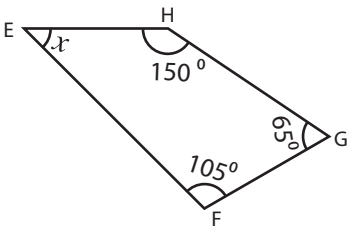
$$360^\circ = 275^\circ + x$$

$$x = 360^\circ - 275^\circ$$

$$x = \mathbf{85^\circ}$$

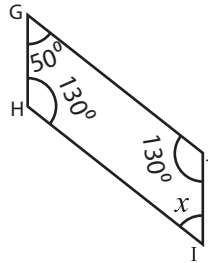
Find the unknown angle in each quadrilateral.

1)



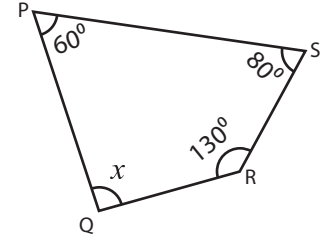
$$x = \mathbf{40^\circ}$$

2)



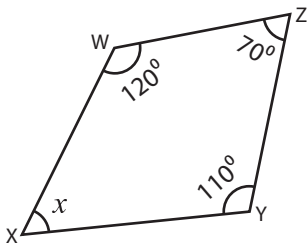
$$x = \mathbf{50^\circ}$$

3)



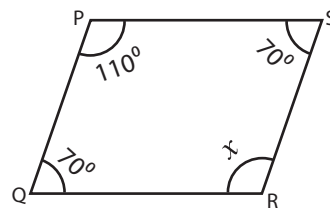
$$x = \mathbf{90^\circ}$$

4)



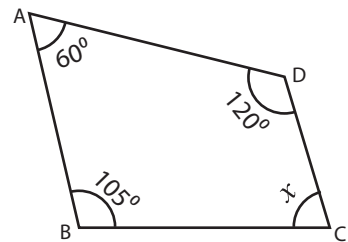
$$x = \mathbf{60^\circ}$$

5)



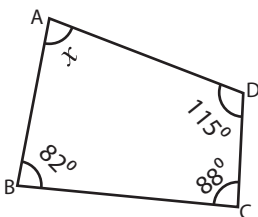
$$x = \mathbf{110^\circ}$$

6)



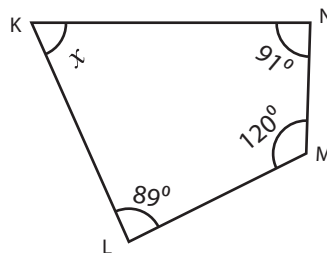
$$x = \mathbf{75^\circ}$$

7)



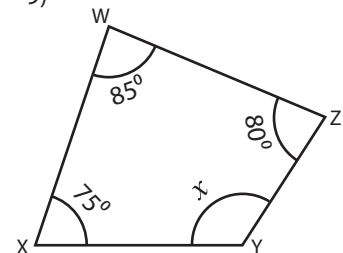
$$x = \mathbf{75^\circ}$$

8)



$$x = \mathbf{60^\circ}$$

9)



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