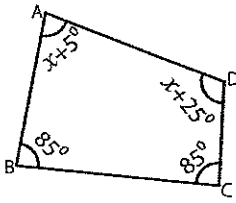


### Answer Key

Example:



**Sum of the interior angles =  $360^\circ$**

$$\text{Sum of the interior angles} = 85^\circ + x + 25^\circ + x + 5^\circ + 85^\circ$$

$$360^\circ = 200^\circ + 2x$$

$$2x = 360^\circ - 200^\circ = 160^\circ$$

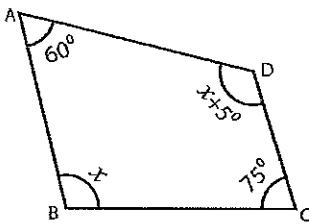
$$x = \frac{160^\circ}{2} = 80^\circ$$

$$\angle A = x + 5^\circ = 80^\circ + 5^\circ = 85^\circ$$

$$\angle D = x + 25^\circ = 80^\circ + 25^\circ = 105^\circ$$

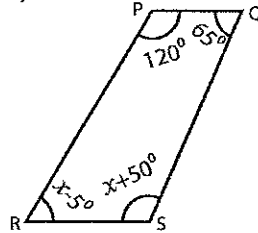
Find the missing angles in each quadrilateral.

1)



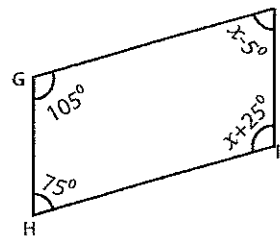
$$x = \underline{110^\circ}; \angle B = \underline{110^\circ}; \angle D = \underline{115^\circ}$$

2)



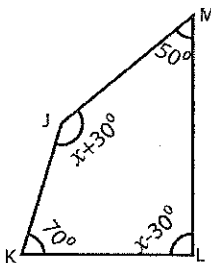
$$x = \underline{65^\circ}; \angle R = \underline{60^\circ}; \angle S = \underline{115^\circ}$$

3)



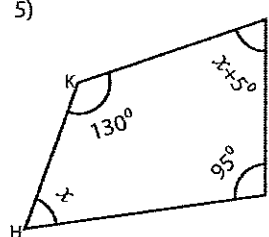
$$x = \underline{80^\circ}; \angle I = \underline{105^\circ}; \angle J = \underline{75^\circ}$$

4)



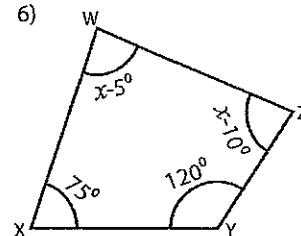
$$x = \underline{120^\circ}; \angle J = \underline{150^\circ}; \angle L = \underline{90^\circ}$$

5)



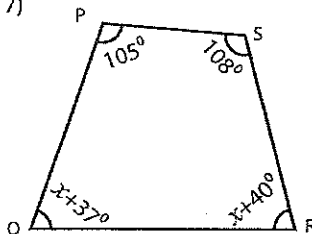
$$x = \underline{65^\circ}; \angle H = \underline{65^\circ}; \angle J = \underline{70^\circ}$$

6)



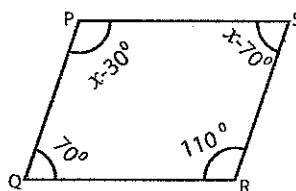
$$x = \underline{90^\circ}; \angle W = \underline{85^\circ}; \angle Z = \underline{80^\circ}$$

7)



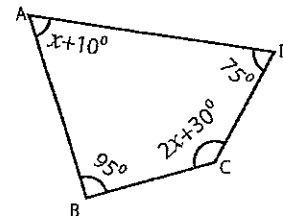
$$x = \underline{35^\circ}; \angle Q = \underline{72^\circ}; \angle R = \underline{75^\circ}$$

8)



$$x = \underline{140^\circ}; \angle P = \underline{110^\circ}; \angle S = \underline{70^\circ}$$

9)



$$x = \underline{50^\circ}; \angle A = \underline{60^\circ}; \angle C = \underline{130^\circ}$$