

Angles in Polygon

Sheet 1

Example:

Sum of the interior angles = (Number of sides - 2) \times 180°

$$= (6 - 2) \times 180^\circ$$

$$= 4 \times 180 = 720^\circ$$

Sum of the interior angles = $120^\circ + 140^\circ + 130^\circ + x + 58^\circ + x - 4^\circ + x$

$$720^\circ = 444^\circ + 3x$$

$$3x = 720^\circ - 444^\circ = 276^\circ$$

$$x = \frac{276^\circ}{3} = 92^\circ$$

$$\angle A = x + 58^\circ = 92^\circ + 58^\circ = 150^\circ$$

$$\angle B = x - 4^\circ = 92^\circ - 4^\circ = 88^\circ$$

$$\angle F = x = 92^\circ$$

Find the missing angle for each irregular polygon.

1)



Sum of the interior angles = _____

$$x = \text{ } \angle A = \text{ } \angle C = \text{ } \angle D = \text{ } \angle E = \text{ }$$

2)



Sum of the interior angles = _____

$$x = \text{ } \angle G = \text{ } \angle H = \text{ } \angle J = \text{ } \angle K = \text{ } \angle L = \text{ } \angle M = \text{ }$$

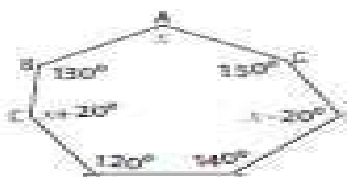
3)



Sum of the interior angles = _____

$$x = \text{ } \angle P = \text{ } \angle R = \text{ } \angle T = \text{ } \angle U = \text{ } \angle Q = \text{ } \angle S = \text{ }$$

4)



Sum of the interior angles = _____

$$x = \text{ } \angle A = \text{ } \angle C = \text{ } \angle E = \text{ } \angle B = \text{ } \angle D = \text{ }$$

5)



Sum of the interior angles = _____

$$x = \text{ } \angle H = \text{ } \angle J = \text{ } \angle K = \text{ } \angle L = \text{ } \angle M = \text{ } \angle G = \text{ }$$

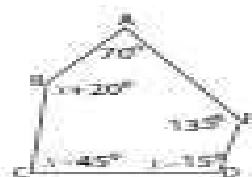
6)



Sum of the interior angles = _____

$$x = \text{ } \angle P = \text{ } \angle R = \text{ } \angle S = \text{ } \angle T = \text{ } \angle Q = \text{ }$$

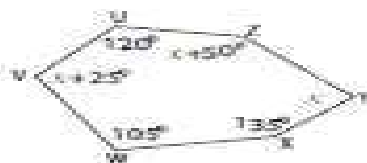
7)



Sum of the interior angles = _____

$$x = \text{ } \angle B = \text{ } \angle C = \text{ } \angle D = \text{ } \angle A = \text{ }$$

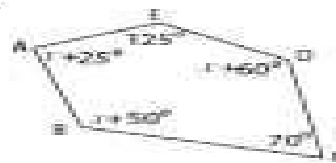
8)



Sum of the interior angles = _____

$$x = \text{ } \angle V = \text{ } \angle Y = \text{ } \angle X = \text{ } \angle U = \text{ } \angle W = \text{ }$$

9)



Sum of the interior angles = _____

$$x = \text{ } \angle A = \text{ } \angle B = \text{ } \angle D = \text{ } \angle E = \text{ } \angle C = \text{ }$$

Polygons Answer Key

Rachel Sandford



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side of the triangle and is called the hypotenuse