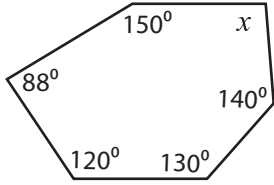


Interior Angle

Example:



$$\text{Sum of the interior angles} = (\text{Number of sides} - 2) \times 180^\circ$$

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

$$= 4 \times 180 = \mathbf{720^\circ}$$

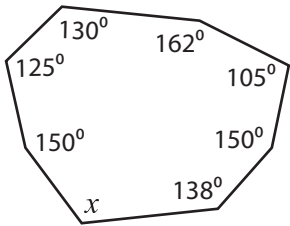
$$\text{Sum of the interior angles} = 120^\circ + 140^\circ + 130^\circ + 150^\circ + 88^\circ + x$$

$$\mathbf{720^\circ} = 628^\circ + x$$

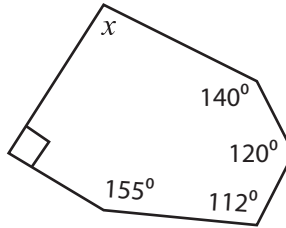
$$x = \mathbf{720^\circ} - 628^\circ = \mathbf{92^\circ}$$

Find the interior angle for each irregular polygon.

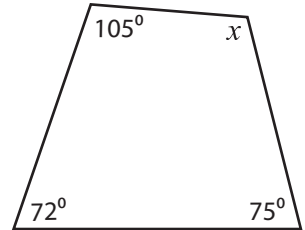
1)



2)



3)



Sum of the interior angles =

Sum of the interior angles =

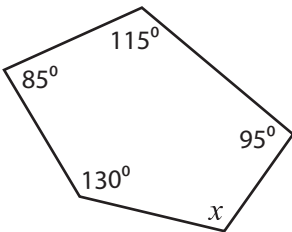
Sum of the interior angles =

$x =$

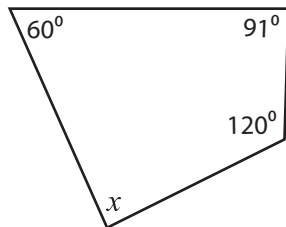
$x =$

$x =$

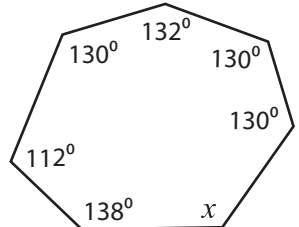
4)



5)



6)



Sum of the interior angles =

Sum of the interior angles =

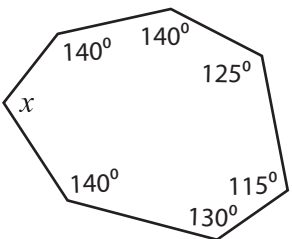
Sum of the interior angles =

$x =$

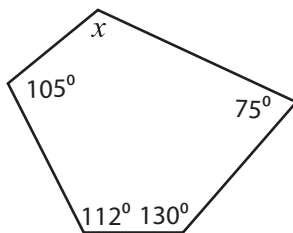
$x =$

$x =$

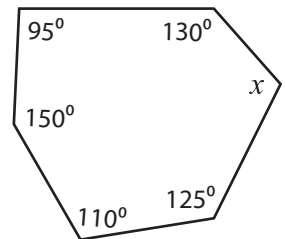
7)



8)



9)



Sum of the interior angles =

Sum of the interior angles =

Sum of the interior angles =

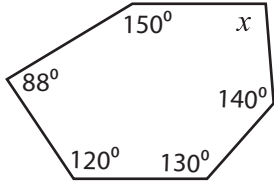
$x =$

$x =$

$x =$

Answer Key

Example:



$$\text{Sum of the interior angles} = (\text{Number of sides} - 2) \times 180^\circ$$

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

$$= 4 \times 180 = \mathbf{720^\circ}$$

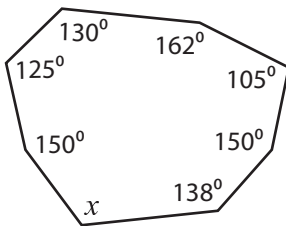
$$\text{Sum of the interior angles} = 120^\circ + 140^\circ + 130^\circ + 150^\circ + 88^\circ + x$$

$$\mathbf{720^\circ} = 628^\circ + x$$

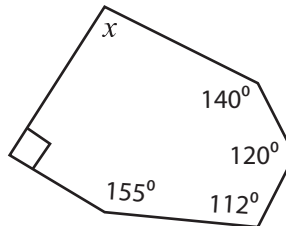
$$x = \mathbf{720^\circ} - 628^\circ = \mathbf{92^\circ}$$

Find the interior angle for each irregular polygon.

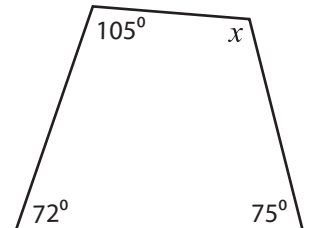
1)



2)



3)



Sum of the interior angles = **1080°**

Sum of the interior angles = **720°**

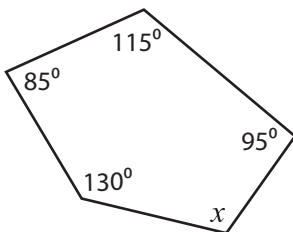
Sum of the interior angles = **360°**

x = **120°**

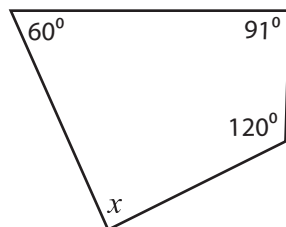
x = **103°**

x = **108°**

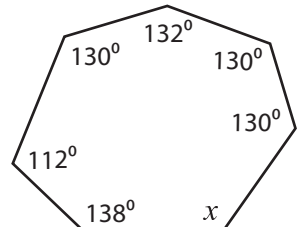
4)



5)



6)



Sum of the interior angles = **540°**

Sum of the interior angles = **360°**

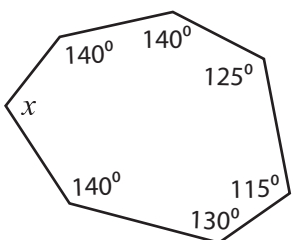
Sum of the interior angles = **900°**

x = **115°**

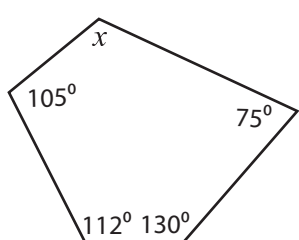
x = **89°**

x = **128°**

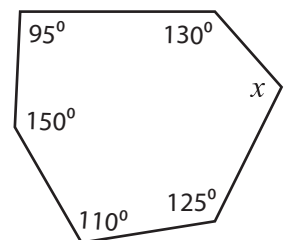
7)



8)



9)



Sum of the interior angles = **900°**

Sum of the interior angles = **540°**

Sum of the interior angles = **720°**

x = **110°**

x = **118°**

x = **110°**