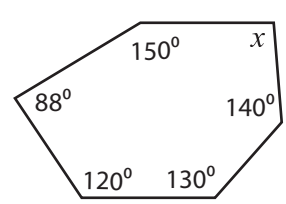


Interior Angle

Example: Sum of the interior angles = (Number of sides - 2) x 180°



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

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

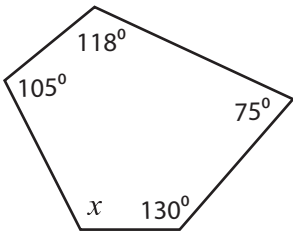
Sum of the interior angles = $120^\circ + 140^\circ + 130^\circ + 150^\circ + 88^\circ + x$

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

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

Find the interior angle for each irregular polygon.

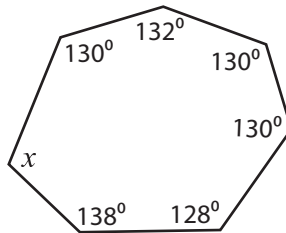
1)



Sum of the interior angles =

$x =$

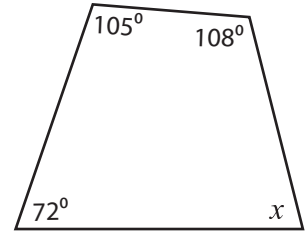
2)



Sum of the interior angles =

$x =$

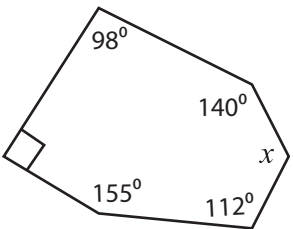
3)



Sum of the interior angles =

$x =$

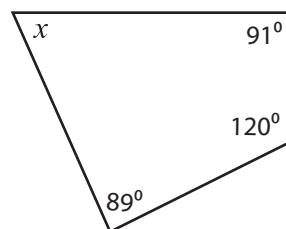
4)



Sum of the interior angles =

$x =$

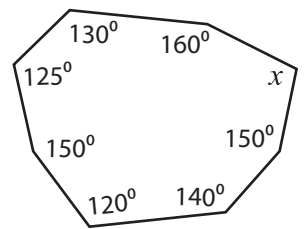
5)



Sum of the interior angles =

$x =$

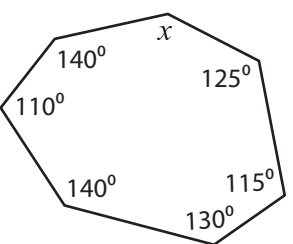
6)



Sum of the interior angles =

$x =$

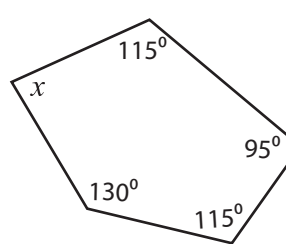
7)



Sum of the interior angles =

$x =$

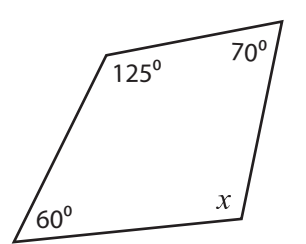
8)



Sum of the interior angles =

$x =$

9)

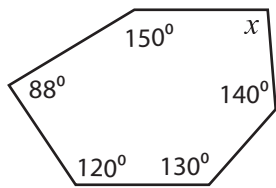


Sum of the interior angles =

$x =$

Answer Key

Example:



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

= (6 - 2) x 180°

= 4 x 180 = **720°**

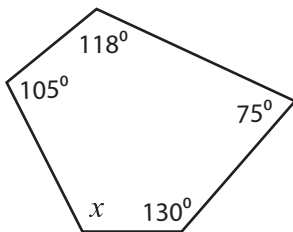
Sum of the interior angles = 120° + 140° + 130° + 150° + 88° + x

720° = 628° + x

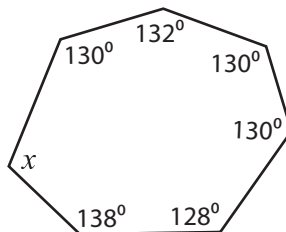
x = **720°** - 628° = **92°**

Find the interior angle for each irregular polygon.

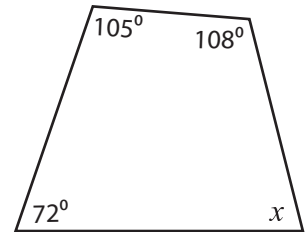
1)



2)



3)



Sum of the interior angles = **540°**

x = **112°**

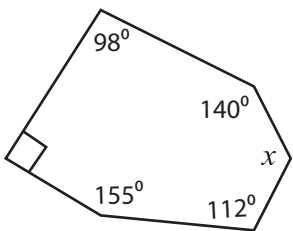
Sum of the interior angles = **900°**

x = **112°**

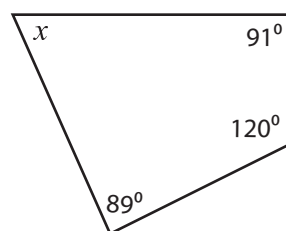
Sum of the interior angles = **360°**

x = **75°**

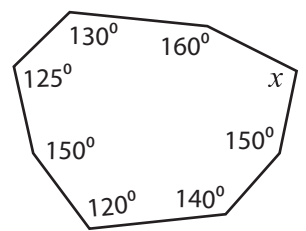
4)



5)



6)



Sum of the interior angles = **720°**

x = **125°**

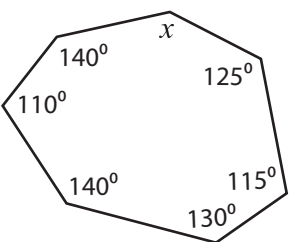
Sum of the interior angles = **360°**

x = **60°**

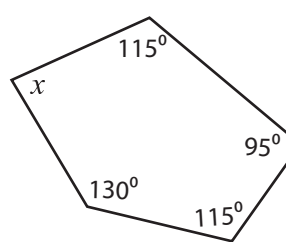
Sum of the interior angles = **1080°**

x = **105°**

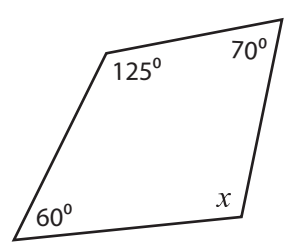
7)



8)



9)



Sum of the interior angles = **900°**

x = **140°**

Sum of the interior angles = **540°**

x = **85°**

Sum of the interior angles = **360°**

x = **105°**