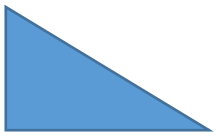
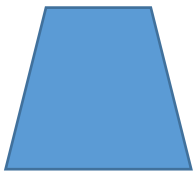
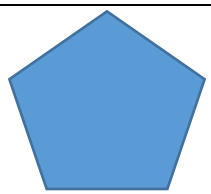
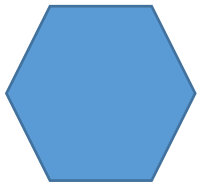
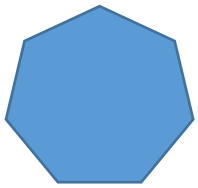
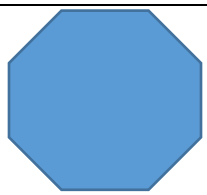
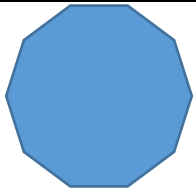
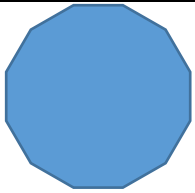
Polygons & Interior Sum Theorem

Polygon	Name of Polygon	# of sides (n)	Write in formula: (n-2) x 180	Solution: Sum of Interior Angles
			=	
			=	
			=	
			=	
			=	
			=	
			=	
			=	

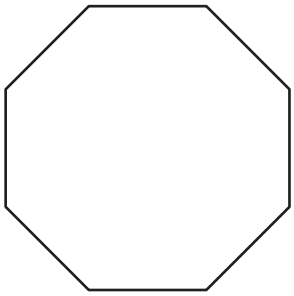
Name : _____

Sum of Interior Angles

ES1

Find the sum of the interior angles of each polygon.

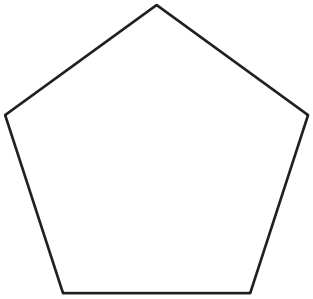
1)



Number of sides = _____

Sum of the interior angles = _____

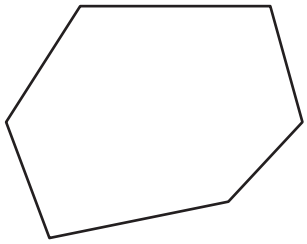
2)



Number of sides = _____

Sum of the interior angles = _____

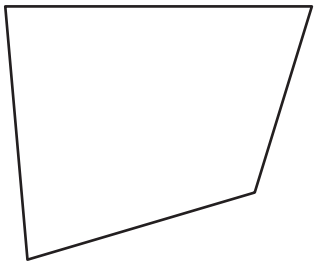
3)



Number of sides = _____

Sum of the interior angles = _____

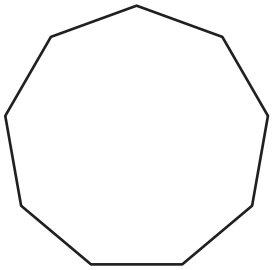
4)



Number of sides = _____

Sum of the interior angles = _____

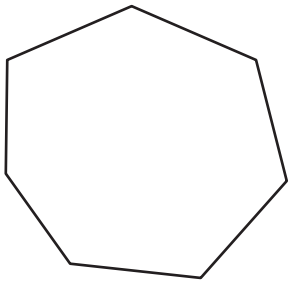
5)



Number of sides = _____

Sum of the interior angles = _____

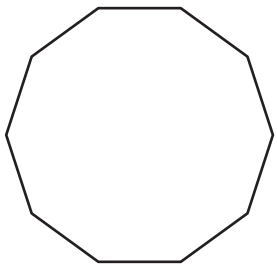
6)



Number of sides = _____

Sum of the interior angles = _____

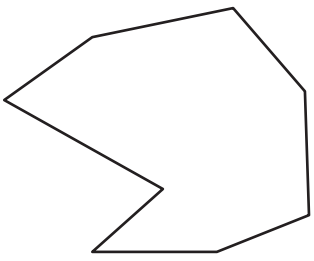
7)



Number of sides = _____

Sum of the interior angles = _____

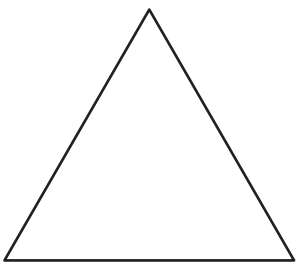
8)



Number of sides = _____

Sum of the interior angles = _____

9)



Number of sides = _____

Sum of the interior angles = _____

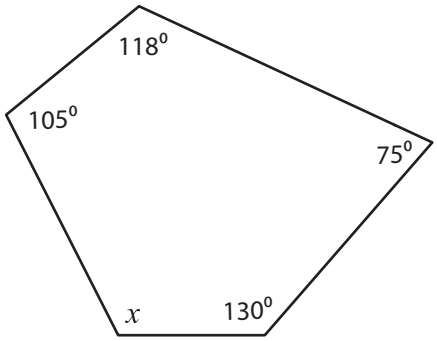
Name : _____

Interior Angle

Sheet 1

Find the value of x.

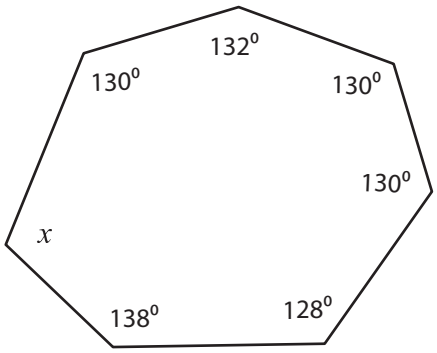
1)



Sum of the interior angles = _____

x = _____

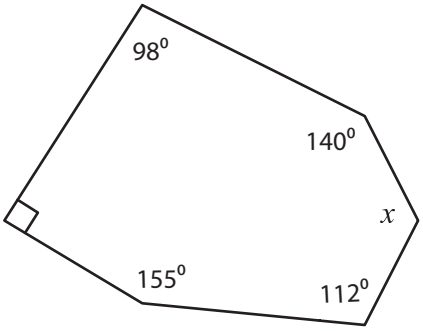
2)



Sum of the interior angles = _____

x = _____

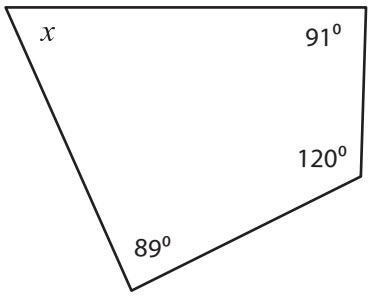
3)



Sum of the interior angles = _____

x = _____

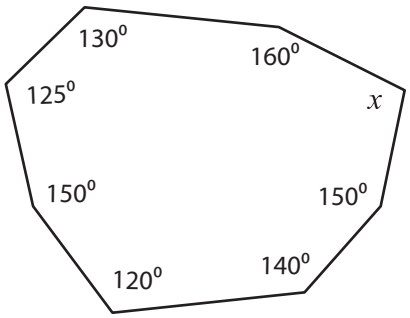
4)



Sum of the interior angles = _____

x = _____

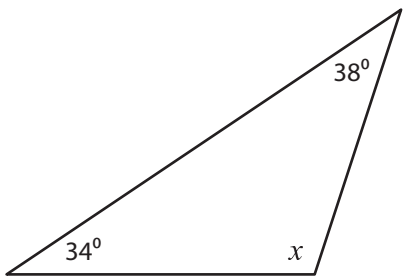
5)



Sum of the interior angles = _____

x = _____

6)



Sum of the interior angles = _____

x = _____

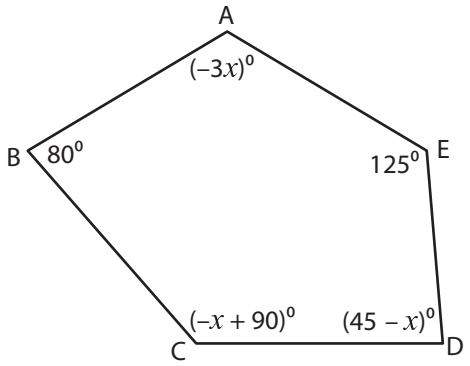
Name : _____

Angles in Polygon

Sheet 1

Find the measures of the indicated angles.

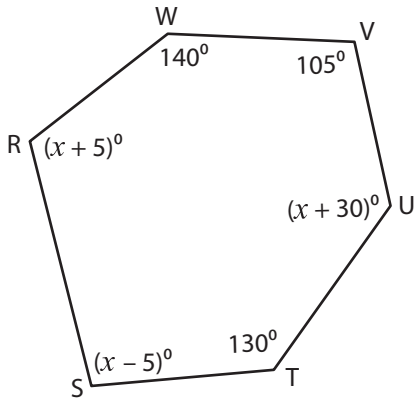
1)



Sum of the interior angles = _____ ; x = _____

m∠A = _____ ; m∠C = _____ ; m∠D = _____

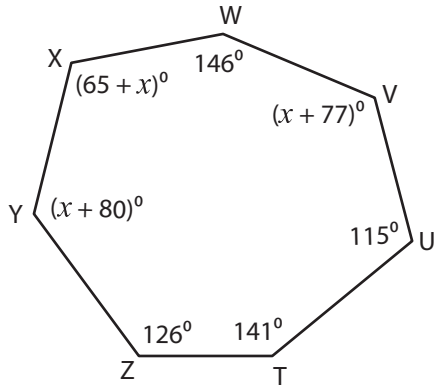
2)



Sum of the interior angles = _____ ; x = _____

m∠R = _____ ; m∠S = _____ ; m∠U = _____

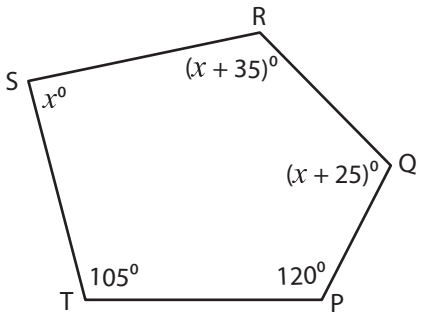
3)



Sum of the interior angles = _____ ; x = _____

m∠X = _____ ; m∠Y = _____ ; m∠V = _____

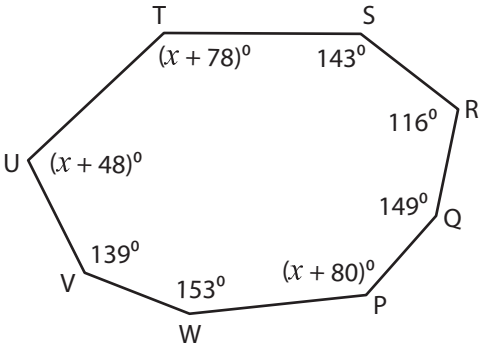
4)



Sum of the interior angles = _____ ; x = _____

m∠S = _____ ; m∠Q = _____ ; m∠R = _____

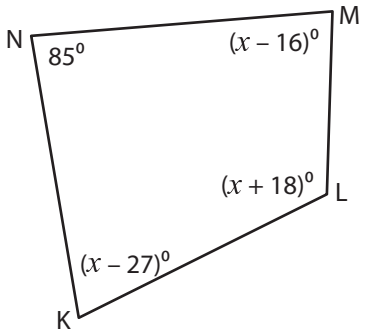
5)



Sum of the interior angles = _____ ; x = _____

m∠U = _____ ; m∠T = _____ ; m∠P = _____

6)



Sum of the interior angles = _____ ; x = _____

m∠K = _____ ; m∠L = _____ ; m∠M = _____