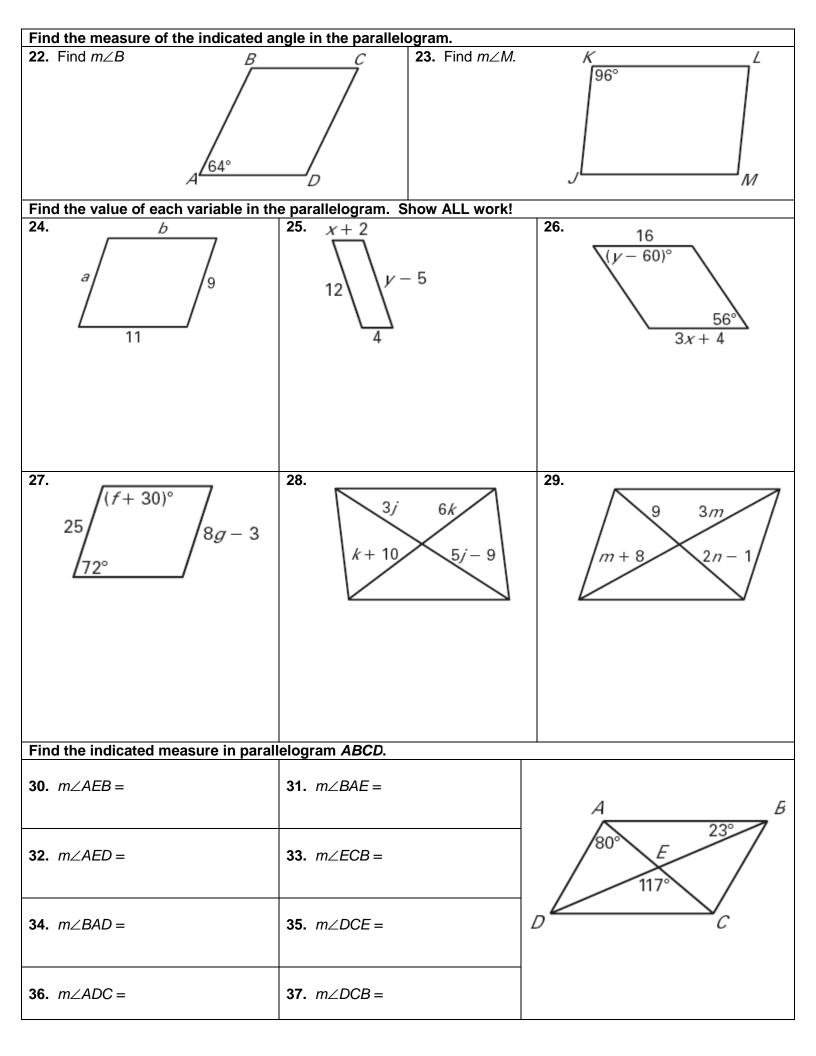
Find the <u>sum of the measures of the interior angles</u> of the indicated convex polygon.  Show your work.							
1. Hexagon	2. Dodecagon	3. 11-gon		<b>4.</b> 15-gon	<b>5.</b> 20-gon		
The sum of the measures of the interior angles of a convex polygon is given.  Classify the polygon by the number of sides.							
<b>6.</b> 180°	<b>7.</b> 540°	8	3. 900°		<b>9.</b> 1800°		
Name:	Name:	N	Name:		Name:		
Find the value of x. Set up an equation for each problem.							
10. 105° 142° 88°	11.	64°	2 <i>x</i> °)	12. 124° 102°	146° 158° 16 <i>x</i> °) 34 <i>x</i> °		

Find the value of x. Set up an equation for each problem.						
13.						
93° 75° 2 <i>x</i> °	90°	100° 20° 6x° 6x°				
<b>Answer each question. Show your v 16.</b> What is the measure of <b>each</b>	vork!!  17. The measures of the exterior	<b>18.</b> The measures of the <b>interior</b>				
exterior angle of a regular nonagon?	angles of a convex quadrilateral are 90°, 10 x°, 5 x°, and 45°. What is the measure of the largest exterior angle?	angles of a convex octagon are 45x°, 40 x°, 155°, 120°, 155°, 38x°, 158°, and 41 x°. What is the measure of the smallest interior angle?				
Find the measures of an interior angle and an exterior angle of the indicated polygon. Show work!						
19. Regular triangle	20. Regular octagon	21. Regular 16-gon				
interior angle:	interior angle:	interior angle:				
exterior angle:	exterior angle:	exterior angle:				



State the theorem can you use to show that the quadrilateral is a parallelogram.						
38. \( \frac{75^\circ}{105^\circ} \)	39. 73 98 98 73					
40. 3.6 5 3.6	10					
For what value of x is the quadrilateral a parallelogram? Show your work!  42. 43. 44. 44.						
$\begin{array}{c} 2x-1 \\ x+5 \end{array}$	)°					
45. $\int_{5x^{\circ}} 4x^{\circ}$	46. $3x - 11$ $x + 5$					
The vertices of quadrilateral <i>ABCD</i> are given. Draw <i>ABCD</i> in a coordinate plane and show that it is a parallelogram. Look back on the 5 ways and decide which one you want to use!						
<b>47.</b> $A(-2, -3)$ , $B(0, 5)$ , $C(6, 5)$ , $D(4, -3)$	<b>48.</b> A(-2, 3), B(3, 2), C(3, -1), D(-2, 0)					