- 1. a.) What is the sum of the exterior angles of a nonagon?
- b.) What is the sum of the interior angles of a nonagon? 180(9-2) = 1260°
- c.) What is the measure of each exterior angle of a regular nonagon?

$$\frac{360}{9} = 40^{\circ}$$

d.) What is the measure of each interior angle of a regular nonagon?

$$\frac{180(9-2)}{9} = \frac{1260}{9} = 140^{\circ}$$

2. The sum of the interior angles of a polygon is 1260°. What is the number of sides in the polygon?

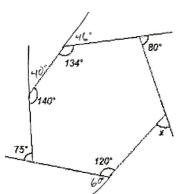
$$180(n-2) = 1260$$
 [9sides]

3) An exterior angle on a regular polygon has a measure of 18°. How many sides does the polygon have?

4.) Write an equation to find the value of x and solve.

$$x + 60 + 75 + 40 + 46 + 80 = 360$$

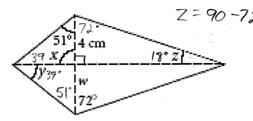
 $x + 301 = 360$
 $x = 59$

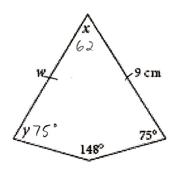


For Problems 5-8, find the lettered measures in each figure. The figures in Problems 5 and 6 are kites.

5.
$$w = \frac{4}{y} = \frac{90^{\circ}}{39^{\circ}} = \frac{10^{\circ}}{10^{\circ}}$$

6.
$$w = \frac{9}{6\lambda^*}$$
$$y = \frac{75^*}{75^*}$$





The figures in Problems 7 and 8 are isosceles trapezoids.

7.
$$x = \frac{\int_{0}^{\infty} \int_{0}^{\infty} dx}{\int_{0}^{\infty} \int_{0}^{\infty} dx}$$

Perimeter = 111 cm

$$x = \frac{29}{2 \times + 53} = 111$$

$$2 \times = 58$$

$$\times = 29$$

