Polygon Warm-up 6.1-6.4

Find the interior angle sum for each polygon. Round your answer to the nearest tenth if necessary.

1) regular 23-gon
$$S = 180(N-2)$$

Find the measure of one interior angle in each polygon. Round your answer to the nearest tenth if necessary.

$$\frac{180(20-2)}{20} = (162^{\circ})$$

Find the measure of one exterior angle in each polygon. Round your answer to the nearest tenth if necessary.

4.) Find the sum of exterior angle measures of a 43-gon.



5.) Find the number of sides a regular polygon has if the measure of an interior angle is 135°.

$$135 = 180(n-2)$$

6.) Circle all of the properties that hold true for a parallelogram.

diagonals are
$$oldsymbol{\perp}$$

7.) Solve through factoring:
$$x^2 + 9 = 2x + 44$$
 Solve through factoring: $x^2 + 9 = 2x + 44$

$$x^{2} + 9 = 2x + 44$$

 $x^{2} - 3x - 35 = 0$

$$(x-1)(x+5) = 0$$

$$x^2 - 1 = 3x + 9$$

$$(x^2-3x-10=0)$$

$$\begin{array}{c} X+2=0 \\ \hline X=-2 \end{array}$$