What is the name of each polygon?

1.
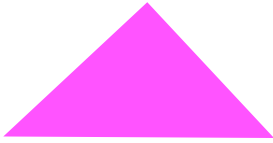
2.
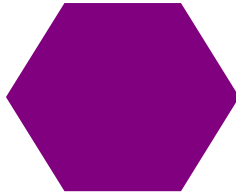
3.
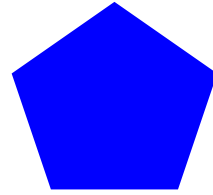
4.

5.

1. A 10-sided polygon is called a _____.
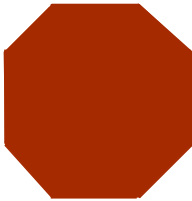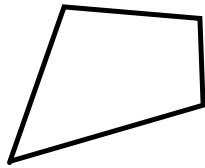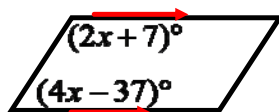
2. An 6-sided polygon is called a _____.

3. Find the sum of the exterior angles of a dodecagon.

4. Determine whether this pair of lines is parallel, perpendicular, or neither.

$$2x + 3y = 6$$
$$3x + 2y = 12$$

5. Use properties of parallel lines to find the value of x.

1. A 4-sided polygon is called a _____.

2. An 8-sided polygon is called a _____.

3. Find the sum of the exterior angles of a nonagon.

4. Find the sum of the interior angles of a pentagon.

5. Find x.

125° 95°
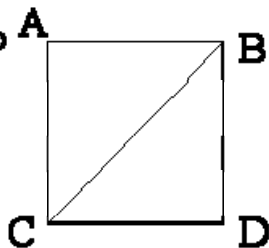
x°

92°

105°
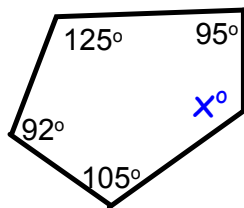
6. Find the measure of one interior angle of a regular decagon.

7. Find the measure of one exterior angle of a regular dodecagon.

8. The sum of the interior angle measures of a n-gon is 2160°. Find n.

1. Find x in square ABCD below.

$m\angle A = (3x - 18)°$

$BC = 30cm$

Classify each statement as <u>always</u>, <u>sometimes</u>, or <u>never</u> true. Hint: draw a picture!

2. A parallelogram is a rhombus.

3. The opposite sides of a trapezoid are congruent.

4. The four sides of a rhombus are congruent.

5. The diagonals of a rhombus are perpendicular.