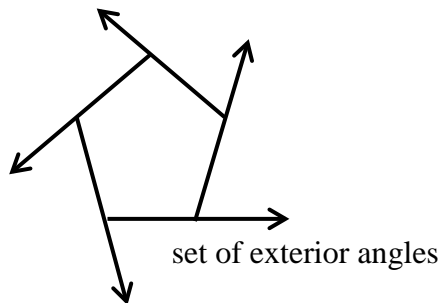
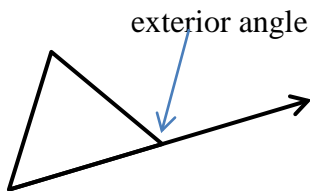


Name _____ Period _____ Date _____

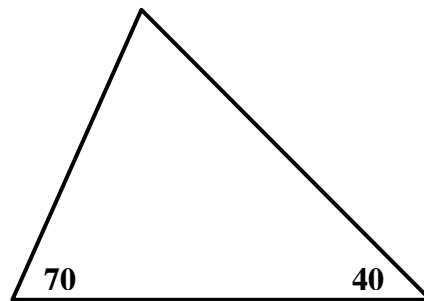
Exterior Angles #1 (page 1)

If you extend one side of a polygon from one endpoint, then you have created an **exterior angle**.



1. Construct a set of exterior angles for the triangle below.

- a) The sum of the measures of the interior angles of a triangle is _____.
- b) The measure of the missing angle in the triangle below is _____.
- c) The sum of the measures of one interior angle plus its exterior angle is _____ because these angles are _____. Calculate the measure of each exterior angle and record them on the figure.
- d) How many exterior angles are there? _____
- e) The sum of the exterior angles is _____.




2. Construct a set of exterior angles for the rectangle below.

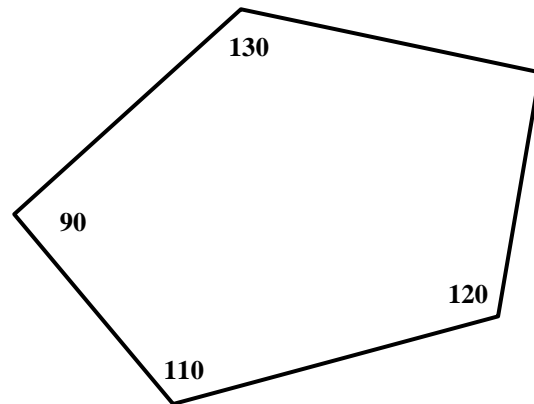
- a) The sum of the measures of the interior angles of a rectangle is _____.
- b) The measure of each angle in the rectangle below is _____.
- c) The sum of the measures of one interior angle plus its exterior angle is _____ because these angles are _____. Calculate the measure of each exterior angle and record them on the figure.
- d) How many exterior angles are there? _____
- e) The sum of the exterior angles is _____.




Exterior Angles #1 (page 2)

3. Construct a set of exterior angles for the pentagon below.

- a) The sum of the measures of the interior angles of a pentagon is _____. Hint: 
- b) The measure of missing angle in the pentagon below is _____.
- c) The sum of the measures of one interior angle plus its exterior angle is _____ because these angles are _____. Calculate the measure of each exterior angle and record them on the figure.
- d) How many exterior angles are there? _____
- e) The sum of the exterior angles is _____.



3. Construct a set of exterior angles for the hexagon below.

- a) The sum of the measures of the interior angles of a hexagon is _____. Hint: 
- b) The measure of missing angle in the hexagon below is _____.
- c) The sum of the measures of one interior angle plus its exterior angle is _____ because these angles are _____. Calculate the measure of each exterior angle and record them on the figure.
- d) How many exterior angles are there? _____
- e) The sum of the exterior angles is _____.

