Wisdom Lane Middle School

Homework #35

Date:_____

Name:_____

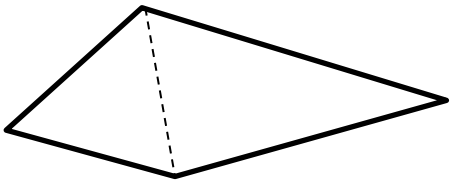
Period:_____

Teacher: Mr. Tomeo

Interior Angles of a Polygon

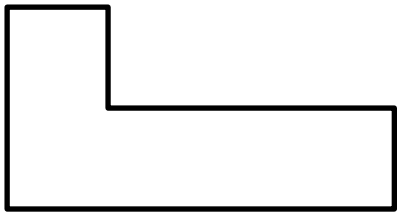
Below are various shapes of polygons. We know that the **sum of the interior angles of a triangle** is equal to **180 degrees.** Using this information, draw in the interior of each shape and break down each polygon into triangles to help you **find the sum of the interior angles of each polygon**. Be sure you only draw triangles by connecting vertices and do not cross any lines. #1 has been done for you.

1.



$180 \cdot 2 = 360$

2.



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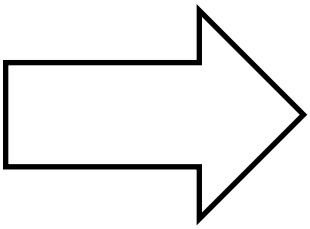
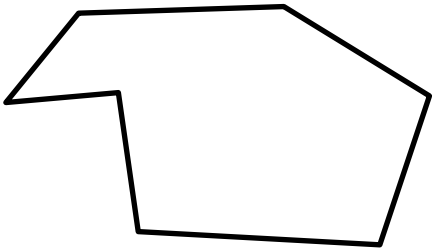


4.



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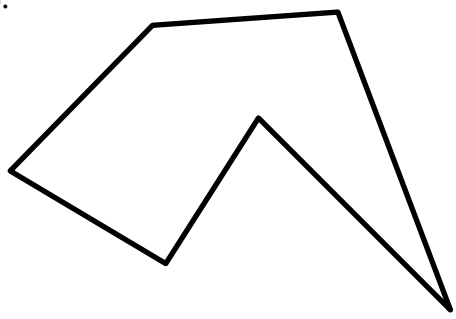

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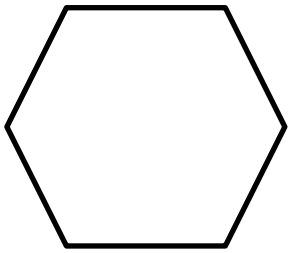

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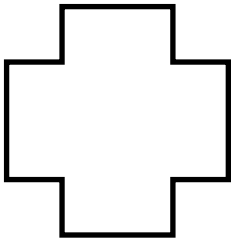

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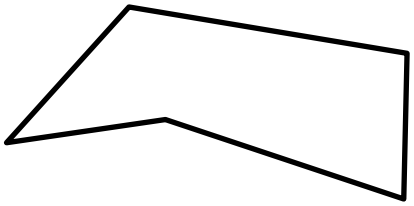

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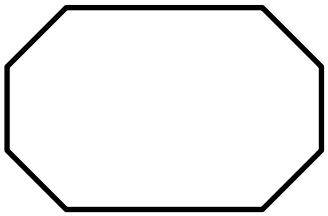

10.