GRADE 12 ESSENTIAL
UNIT G
GEOMETRY & TRIGONOMETRY
REGULAR POLYGONS AND CENTRAL ANGLES
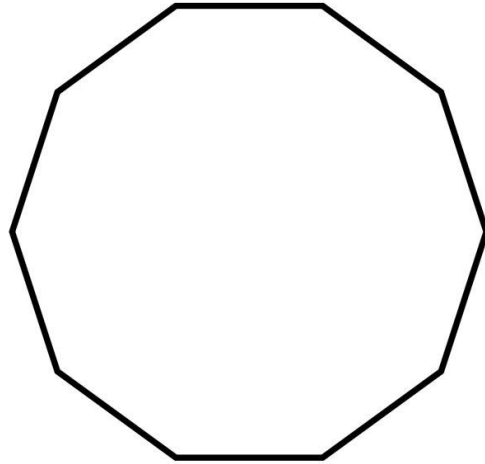
Name: _____

Date: _____

1. In this **regular** decagon:

a. determine the sum of all the interior angles of the polygon.

b. determine the value of the angle at each vertex.

c. determine the central angle formed (subtended) by each side.

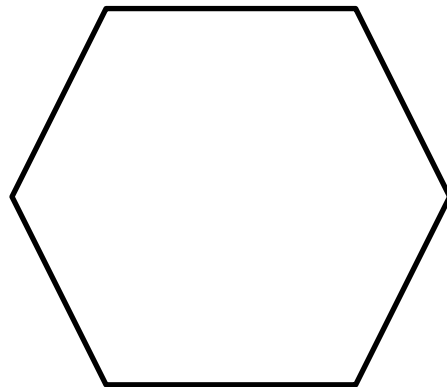d. determine the number of diagonals that cut through the figure.

2. In this **regular** hexagon:

a. determine the sum of all the interior angles of the polygon.

b. determine the value of the angle at each vertex.

c. determine the central angle formed (subtended) by each side.

d. determine the number of diagonals that cut through the figure.

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3. In this **regular** pentagon:

a. determine the sum of all the interior angles of the polygon.

b. determine the value of the angle at each vertex.

c. determine the central angle formed (subtended) by each side.

d. determine the number of diagonals that cut through the figure.