



Lesson 1 Assignment

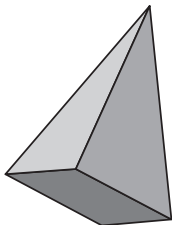

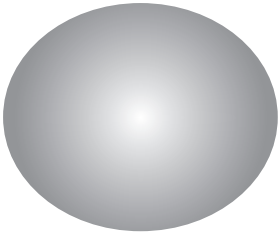
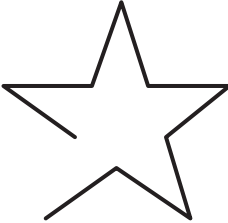
Angle Properties of Polygons

Work slowly and carefully. If you are having difficulty, go back and review the appropriate *Lesson*.

For full marks, show all calculations, steps, and/or explain your answers.

Total: 20 marks.

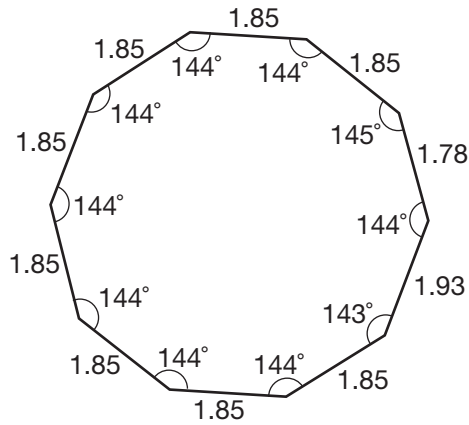
- 4 1. Identify which of the following figures below are polygons. Explain.

2. Name the following polygons. Are the following polygons regular or irregular? Explain.

3

a.



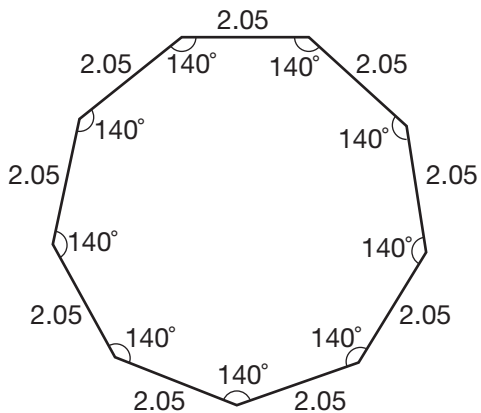
Name:

Regular or Irregular:

Explanation:

3

b.



Name:

Regular or Irregular:

Explanation:

3. Identify each shape as a convex polygon, concave polygon or neither. Explain.

2

a.

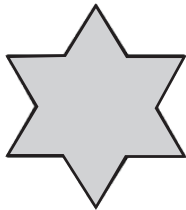


Shape:

Explanation:

2

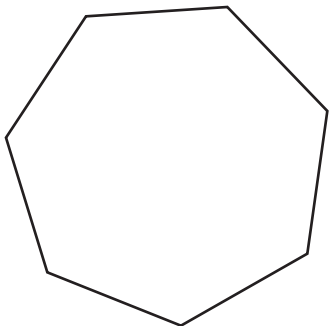
b.



Shape:

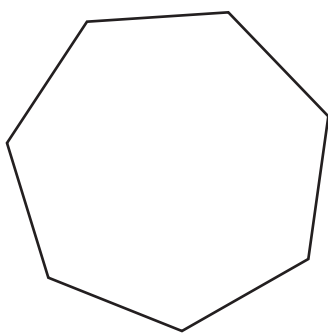
Explanation:

4. Use the picture of the heptagon to complete the following questions.



①

- a. Starting at any vertex in the heptagon, draw all the diagonals in the shape that include that vertex.



①

- b. Using the information from *part a*, determine the sum of the interior angles in a heptagon.

2 5. Determine the sum of the interior angles of an 11-sided figure.

2 6. Find the measure of one of the angles in a regular 12-sided polygon.