12/4/19 - Warm Up Problem

- 1. Would sides lengths of 2 cm, 6 cm, and 9 cm make a triangle?
- 2. Would side lengths of 12 in, 24 in, and 13 in make a triangle?
- **3**. If two sides of a triangle are 15 ft and 32 ft, what is the range of possible lengths for the 3rd side?



Classifying Polygons

CONVEX: all interior angles are less than 180° - all angles point outward

CONCAVE: at least 1 interior angle that is larger than 180°
one or more angles point inward





Equilateral: Equiangular: Regular Polygon:



6.1 polygon angle-sum.notebook

Classifying Polygons - by # of sides

Octagon 8 3 **Triangle** Quadrilateral 4 9 Nonagon Pentagon 5 10 Decagon 6 Hexagon Dodecagon 12 Heptagon n-gon n

6.1 polygon angle-sum.notebook

Assignment:

Concept 14 Worksheet (1-14)

- due next Friday 12/13

CLASSFIVING POLYGONS

Classify each polygon in 3 ways:

1) by its number of sides 2) as convex or concave 3) as regular or irregular



4.

7.

Quadriketeral Convex 155 rgulas 5.

2.



3.

8. 🖉 9.



14. Draw a convex, irregular heptagon.