## 12/4/19 - Warm Up Problem

1. Would sides lengths of $2 \mathrm{~cm}, 6 \mathrm{~cm}$, 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?


Concept 14 - Classifying Polygons
Goal: Classify different types of polygons
Polygon: a closed plane figure formed by 3 or more line segments

Is each a polygon?


## Classifying Polygons

CONVEX: all interior angles are less than $180^{\circ}$

- all angles point outward

CONCAVE: at least 1 interior angle that is larger than $180^{\circ}$

- one or more angles point
inward




Equilateral:
Equiangular:
Regular Polygon:


Classifying Polygons - by \# of sides



## Assignment:

Concept 14 Worksheet (1-14)

- due next Friday 12/13

CLASSFIYING POLYGONS
Classify each polygon in 3 ways: 1) by its number of sides 2) as convex or concave 3) as regular or irregular
1.


6.

7.

8.

9.

10.

11.

12.

13. Draw a concave, irregular, octagon.

