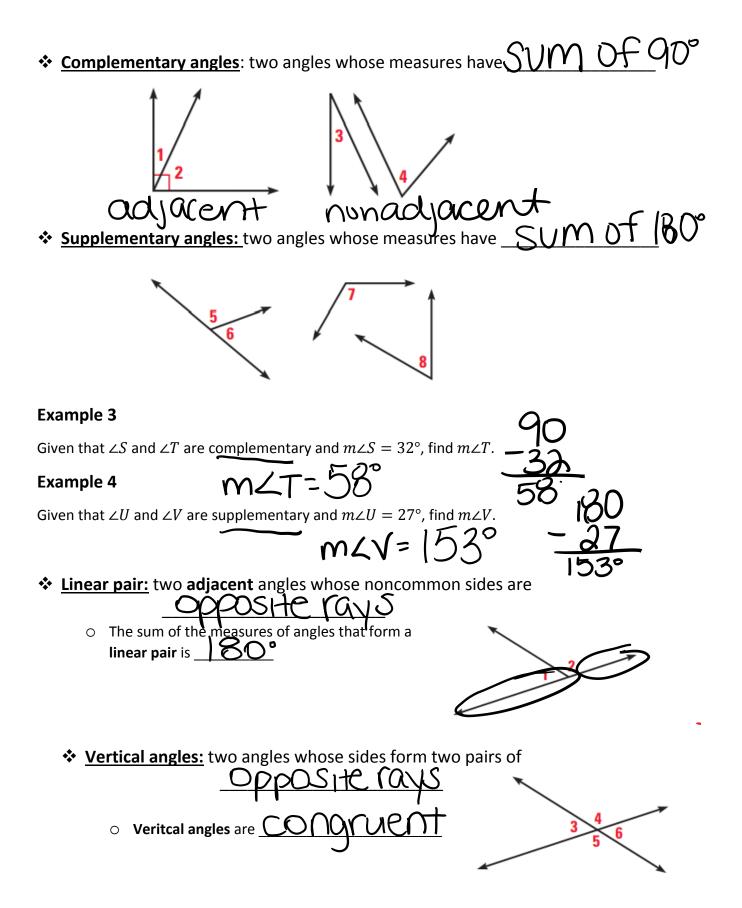
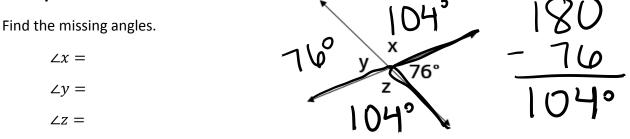
1.5 Angle Pair Relationships



Example 1

Example 2



Example 3

150

Solve for x and y, then find the angle measures. $Y + 20 + 4Y - [5 = 180] = 55^{\circ} \cdot 4 + 125^{\circ} - 55$ 5Y + 5 = 180 = 180 $Y = 35^{\circ} = 35^{\circ}$

35°

F

3=10.5

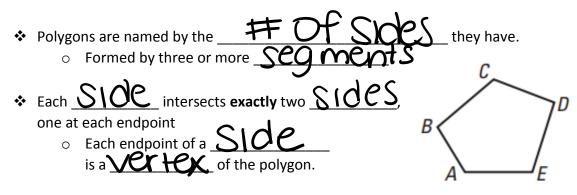
<u>3</u>50

Use the following information then find the angle measures.

- B is in the interior of $\angle CAD$
- D is in the interior of $\angle BAE$
- E is in the interior of $\angle DAF$
- $m \angle CAF = 150^\circ$ and $m \angle BAE = 80^\circ$

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• m \angle CAB = m \angle BAD = m \angle EAF = 35^{\circ}
Find: m \angle CAB, m \angle BAF, m \angle DAF, and m \angle DAE
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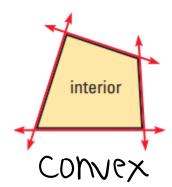
1.6 Classify the Polygons

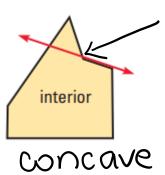


 A polygon can be named by listing the Vernces in consecutive order.

Number of Sides	Type of Polygon	Number of Sides	Type of Polygon
3	Triangle	8	Octagon
4	Quadrilateral	9	Nonagon
5	Pentagon	10	Decagon
6	Hexagon	12	Dodecagon
7	Heptagon	n	n-gon

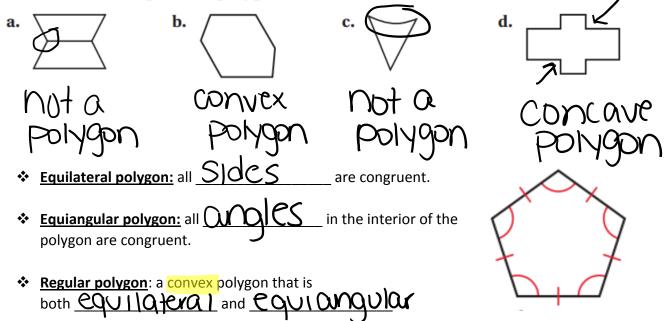
- A polygon is <u>CONVEX</u> if no line that contains a side of the polygon contains a point in the interior of the polygon.
- ♦ A polygon that is not <u>CONVCX</u> is called <u>NONCONVCX</u> or <u>CONCAVC</u>





Example 1

Tell whether the figure is a polygon and whether it is convex or concave.



Example 2

Classify the polygon by the number of sides. Tell whether the polygon is equilateral, equiangular, or regular. Explain your reasoning.

