Name _____

Section _____
Due: Tuesday, 10/16/12

§4-1 and §4-2 Review Worksheet

Use a straight edge to draw triangles that fit the description. Mark the triangles using tick-marks to indicate congruent segments and using arcs to indicate congruent angles.

1) Right, scalene

2) Equiangular, equilateral

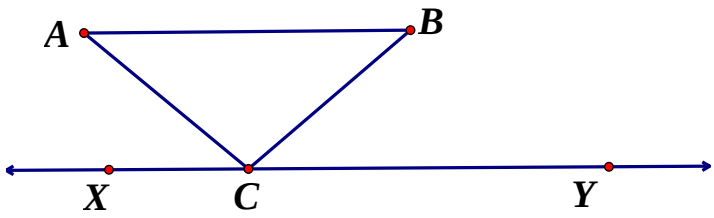
3) Obtuse, isosceles

4) Obtuse, scalene

5) Right, scalene

6) Acute, isosceles

For problems 7-13 use the figure below and the following information.
ΔABC is isosceles, $AB > AC$, $AB > BC$, and $\overline{XY} \parallel \overline{AB}$.
Name each of the following.



7) Sides of the triangle

8) Angles of the triangle

9) Vertex angle

10) Base angles

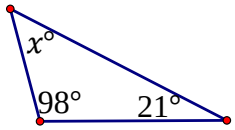
11) Side opposite $\angle BCA$

12) Congruent sides

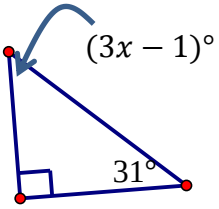
13) Angle opposite $\overline{AC}$

Find the value of *x* in each figure.

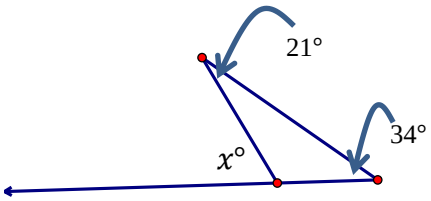
14)



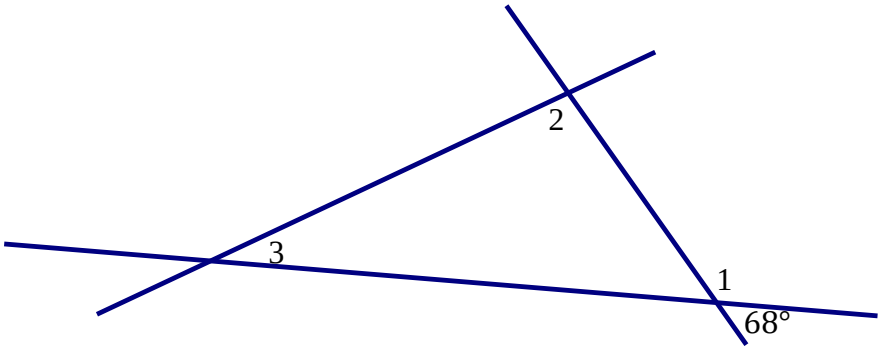
15)



16)



Find the measure of each angle.



17) $m\angle 1$ 18) $m\angle 2$ 19) $m\angle 3$

20) In ΔDEF, $m\angle$E is three times $m\angle$D, and $m\angle$F is 9 less than $m\angle$E.
What is the measure of each angle? Classify the triangle by its angles.