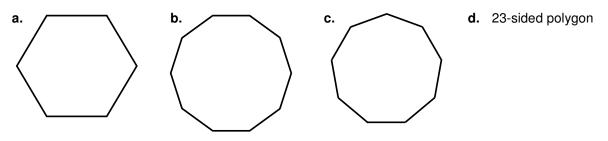
## **Equal Angles: Classwork**

**1.** Find the interior angle sum of each of the following polygons. Show your work.

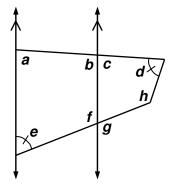


**2.** Suppose each of the polygons in #1 is a regular polygon. Find the measure of <u>one</u> interior angle for each of the polygons (round to the nearest tenth if necessary). Show your work.

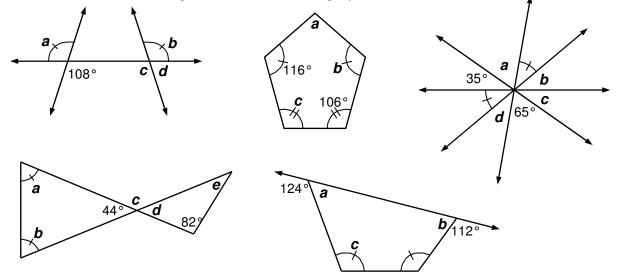


**3.** On your POD paper, make a Statements/Reasons table and list how you determined each unknown angle.

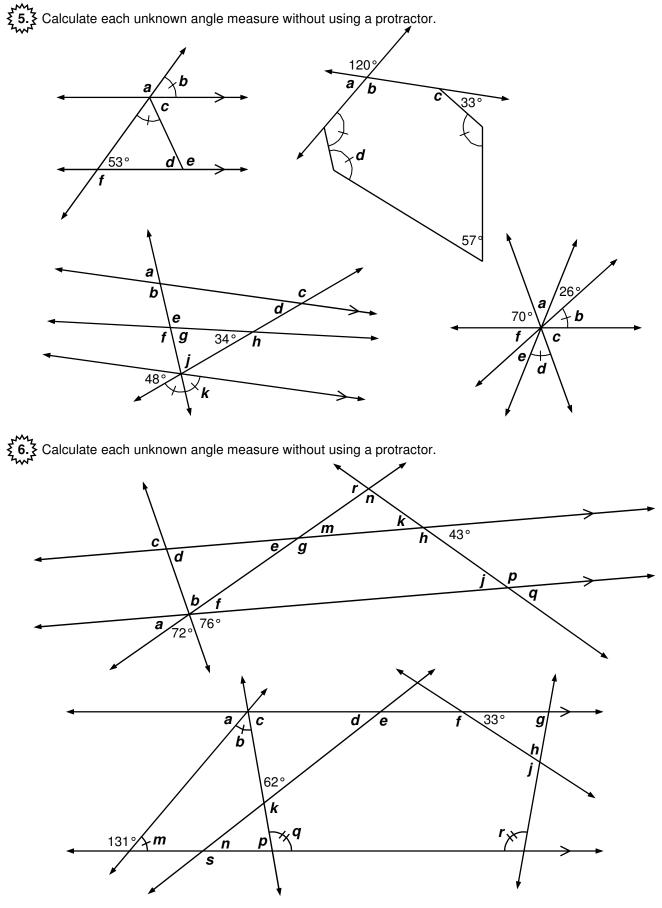
Find the missing angle measures if  $m \angle c = 88^{\circ}$  and  $m \angle g = 110^{\circ}$ .



4. Calculate each unknown angle measure without using a protractor.



2-Geometry/EqualAngles.doc

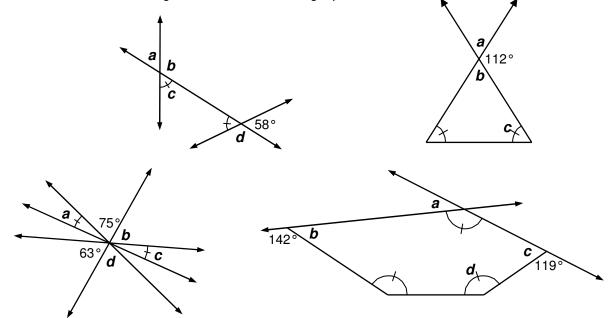


2-Geometry/EqualAngles.doc

Ricky Ohashi, 2013

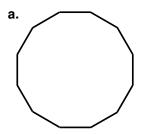
## **Equal Angles: Homework**

7. Calculate each unknown angle measure without using a protractor.



8. Find the interior angle sum of each of the following polygons. Show your work.

b.



- **b.** 20-sided polygon
- c. 35-sided polygon

**9.** Suppose each of the polygons in #8 are regular polygons. Find the measure of <u>one</u> interior angle for each of the polygons (round to the nearest tenth if necessary). Show your work.

a.

C.