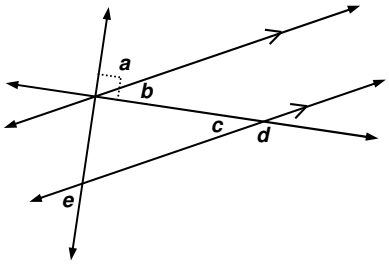
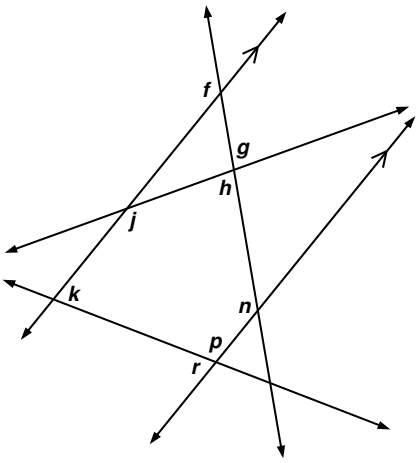
Geometry Quiz 2 Review

1. **On your POD paper**, make Statements/Reasons tables and list how you determined each angle.

a. Find the missing angle measures if $m\angle a = 71°$.



b. Find the missing angle measures if $m\angle f = 143°$, $m\angle g = 87°$, and $m\angle r = 79°$.



You may answer the rest directly on this worksheet.

2. Straight lines $\overleftrightarrow{WZ}$, $\overleftrightarrow{XU}$, and $\overleftrightarrow{YV}$ intersect at point T. Lines $\overleftrightarrow{WZ}$ and $\overleftrightarrow{YV}$ form a right angle.

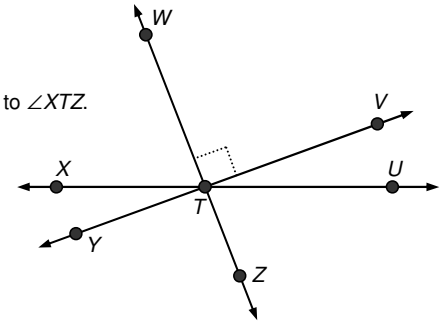
a. Name the angle complementary to $\angle XTY$.

b. Name two different angles that are supplementary to $\angle XTZ$.

c. $\angle ZTU$ and which angle are vertical angles?

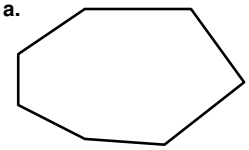
d. Name an angle adjacent to $\angle VTU$.

e. Name two different angles that are supplementary to $\angle VTU$.

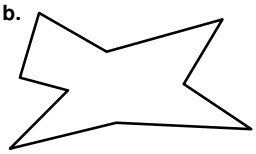


3. Find the interior angle sum of each of the following polygons. Show your work.

a.



b.



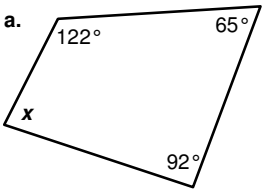
c. 55-sided polygon

4. What is the measure of each interior angle in a regular octagon? Show your work.

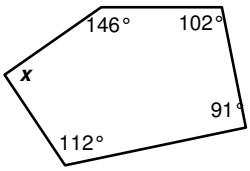
5. What is the measure of each interior angle in a regular 37-sided polygon? Show your work. Round your answer to the nearest tenth.

6. Use what you know about interior angle sums to find the measure of each angle labeled *x*.

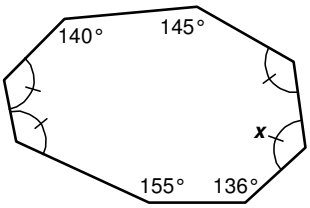
a.



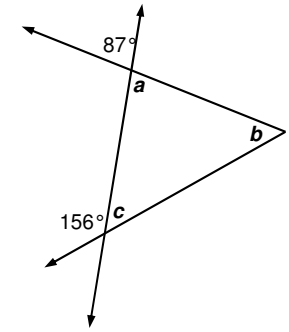
b.

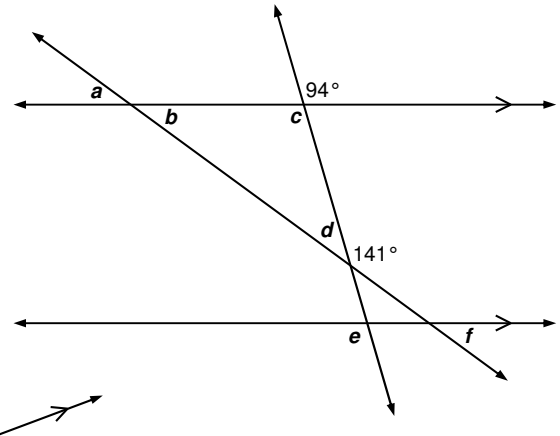


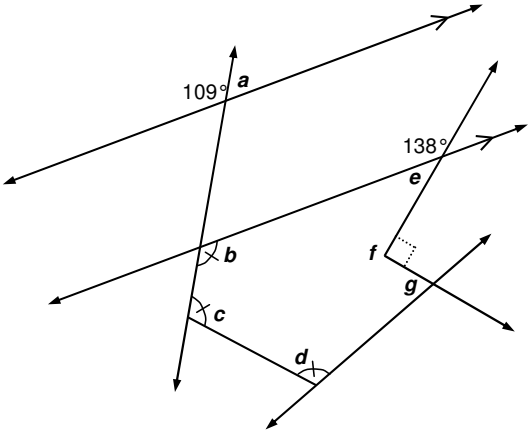
c.

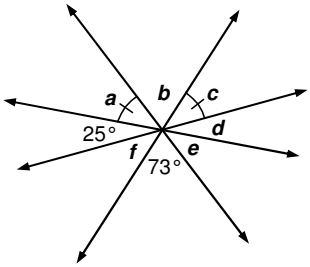


7. Find the missing angle measures.









8. Draw and label diagrams to show a pair of angles that are…

a. Complementary Angles

b. Supplementary Angles

c. Vertical Angles

d. Corresponding Angles

e. Alternate Interior Angles

f. Alternate Exterior Angles