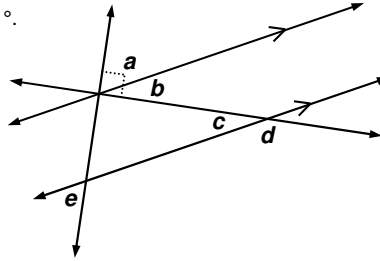


Geometry Quiz Review

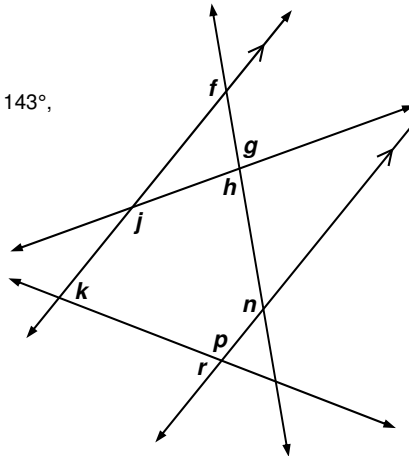
1. Complete the Statements/Reasons tables and list how you determined each angle.

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



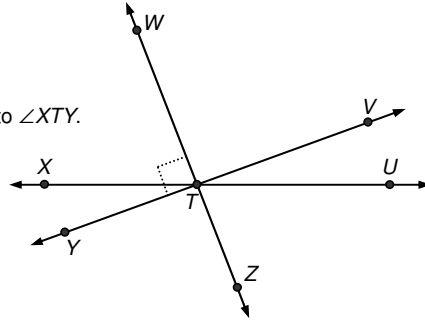
Statements	Reasons
1. $m\angle b =$	
2. $m\angle c =$	
3. $m\angle d =$	
4. $m\angle e =$	

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



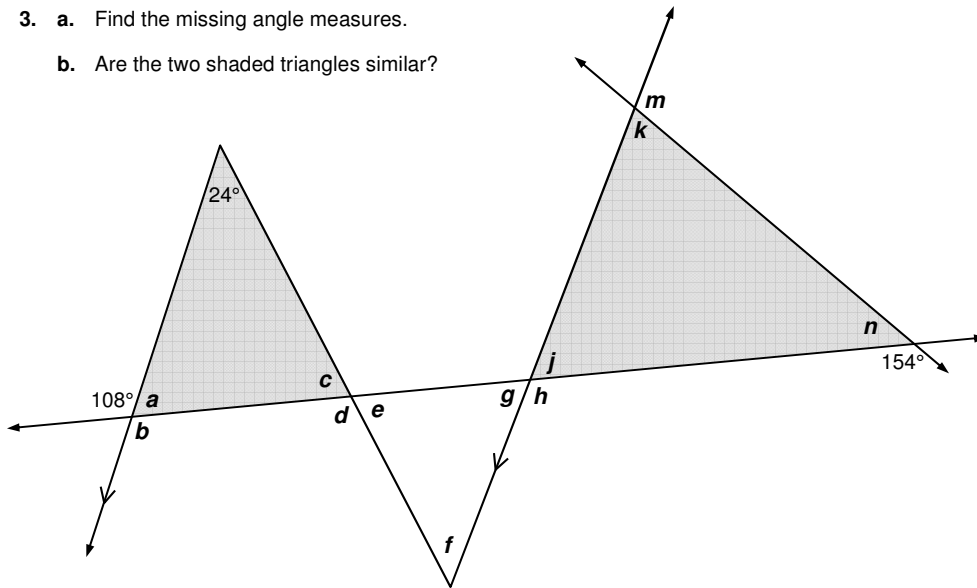
Statements	Reasons
1. $m\angle n =$	
2. $m\angle h =$	
3. $m\angle p =$	
4. $m\angle k =$	
5. $m\angle j =$	

2. Straight lines \overleftrightarrow{WZ} , \overleftrightarrow{XU} , and \overleftrightarrow{YV} intersect at point T . Lines \overleftrightarrow{WZ} and \overleftrightarrow{YV} form a right angle.
- Name the angle complementary to $\angle XTY$.

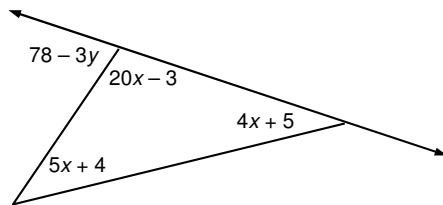


- Name two different angles that are supplementary to $\angle XTY$.
- $\angle ZTU$ and which angle are vertical angles?
- Name an angle adjacent to $\angle VTU$.

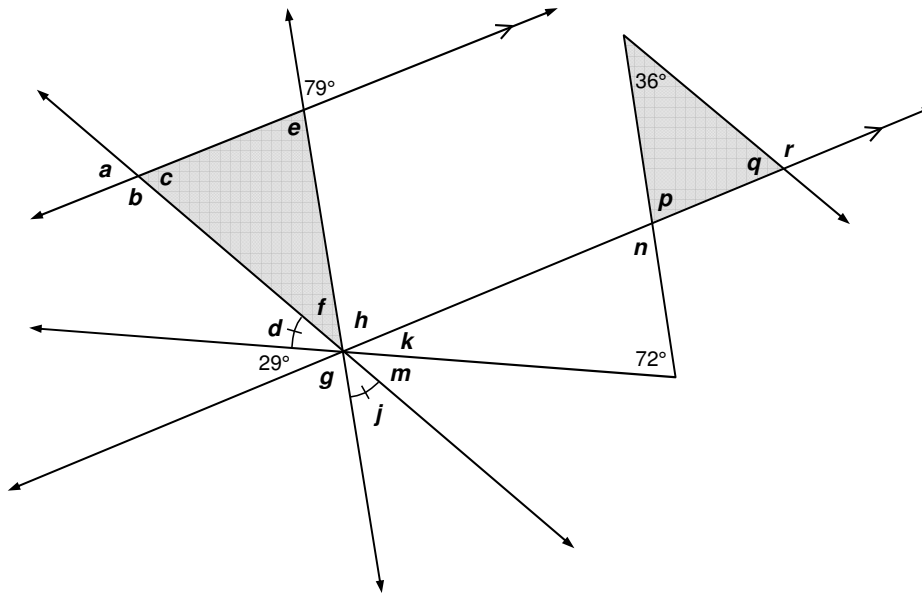
3. a. Find the missing angle measures.
 b. Are the two shaded triangles similar?

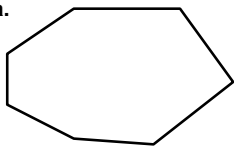
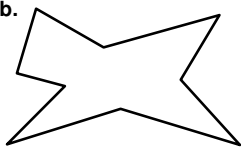


4. Write and solve an equation to find the value of each variable, then calculate the measure of each angle. Show your algebra work!



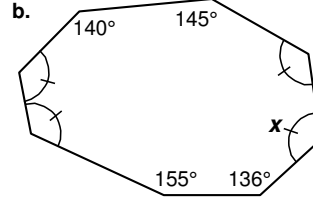
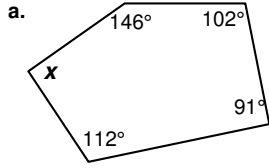
5. a. Find the missing angle measures.
 b. Are the two shaded triangles similar?



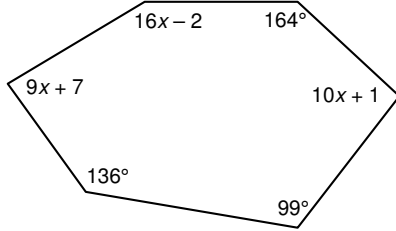
6. Find the interior angle sum of each of the following polygons. Show your work.
 a.  b.  c. 55-sided polygon

7. What is the measure of each interior angle in a regular octagon? Show your work.
8. What is the measure of each interior angle in a regular 37-sided polygon? Show your work. Round your answer to the nearest tenth.
9. How many sides does a polygon have if the sum of its angle measures is 8460° ? Use the formula to set up and solve an algebra equation. Show your work!

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



11. Write and solve an equation to find the value of x , then calculate the measure of each angle. Show your algebra work!



12. Write and solve an equation to find the value of each variable, then calculate the measure of each angle. Show your algebra work!

