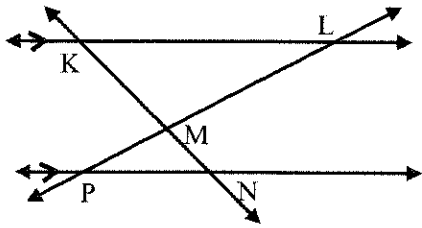


# Lesson 1.7C ~ Angle Relationships

Name \_\_\_\_\_ Period \_\_\_\_\_ Date \_\_\_\_\_

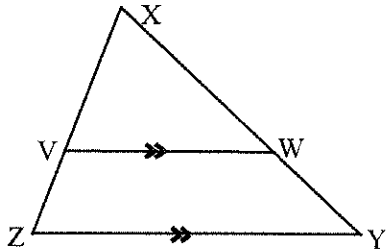
Each diagram shows similar triangles.

1.



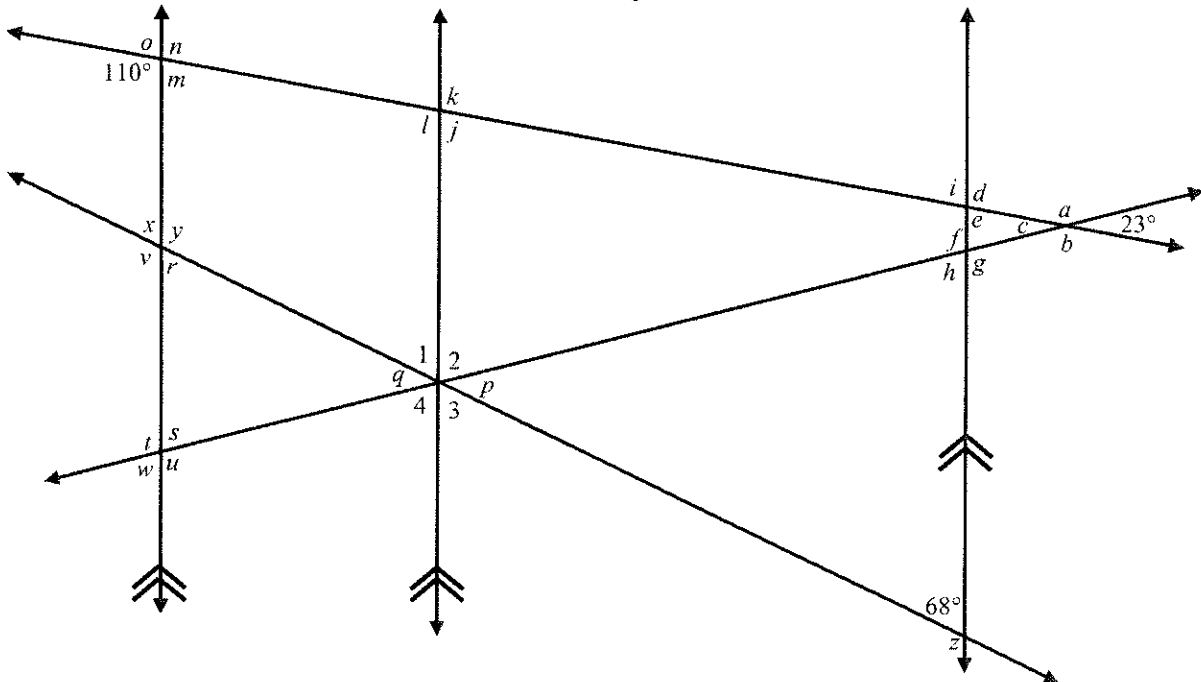
- $m\angle KML \cong m\angle NMP$ , why?
- $m\angle MKL \cong m\angle MNP$ , why?
- $\triangle PMN \sim \triangle$  \_\_\_\_\_. How do you know?

2.



- $m\angle XVW \cong m\angle VZY$ , why?
- $m\angle VXW \cong m\angle ZXY$ , why?
- $\triangle XWV \sim \triangle$  \_\_\_\_\_. Explain.

3. Find the measure of each lettered and numbered angle.



- $a =$  \_\_\_\_     $b =$  \_\_\_\_     $c =$  \_\_\_\_     $d =$  \_\_\_\_     $e =$  \_\_\_\_     $f =$  \_\_\_\_     $g =$  \_\_\_\_  
 $h =$  \_\_\_\_     $i =$  \_\_\_\_     $j =$  \_\_\_\_     $k =$  \_\_\_\_     $l =$  \_\_\_\_     $m =$  \_\_\_\_     $n =$  \_\_\_\_  
 $o =$  \_\_\_\_     $p =$  \_\_\_\_     $q =$  \_\_\_\_     $r =$  \_\_\_\_     $s =$  \_\_\_\_     $t =$  \_\_\_\_     $u =$  \_\_\_\_  
 $v =$  \_\_\_\_     $w =$  \_\_\_\_     $x =$  \_\_\_\_     $y =$  \_\_\_\_     $z =$  \_\_\_\_  
 $m\angle 1 =$  \_\_\_\_     $m\angle 2 =$  \_\_\_\_     $m\angle 3 =$  \_\_\_\_     $m\angle 4 =$  \_\_\_\_