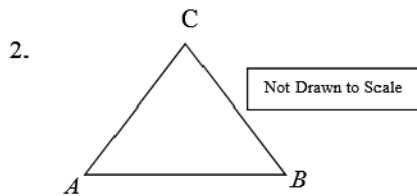
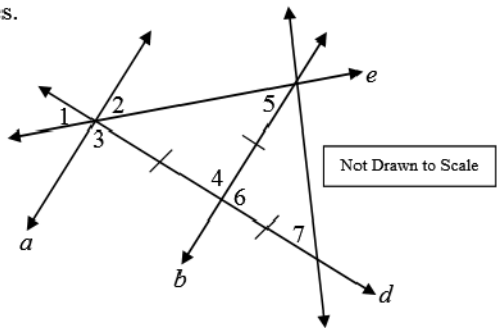


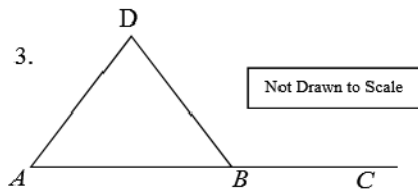
**Geometry**  
**Chapter 4 Review 2015**

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

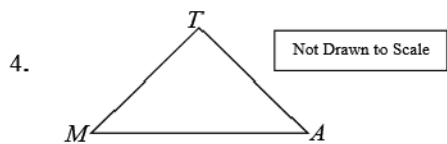
1. Find all of the numbered angles.  
 Given:  $a \parallel b$ ;  $m\angle 5 = 40^\circ$



Given:  $\overline{AC} \cong \overline{BC}$   
 $m\angle B = 47^\circ$   
 Find  $m\angle C$



Given:  $\overline{AD} \cong \overline{BD}$   
 and  $m\angle DBC = 135^\circ$   
 Find  $m\angle A$



Given:  $\angle A \cong \angle M$   
 Solve for  $x$ .

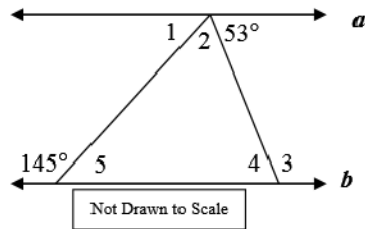
$$MA = 3x - 12$$

$$AT = 2x - 5$$

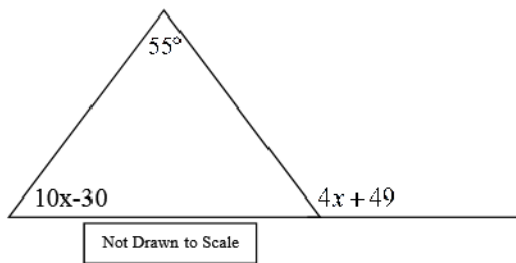
$$MT = 3(x - 7) - 1$$

(Review of Chapter 3 on this page)

5. Use the diagram to find the measure of each angle. Given  $a \parallel b$ .



6. Find the value of  $x$ .



7. Write the slope-intercept form of the equation of the line passing through the point  $(3,-2)$  and parallel to the line  $y = \frac{4}{5}x + 6$ .

8. Write the point-slope form of the equation of the line passing through the point  $(-6,2)$  and perpendicular to the line  $y = \frac{2}{3}x + 6$ .