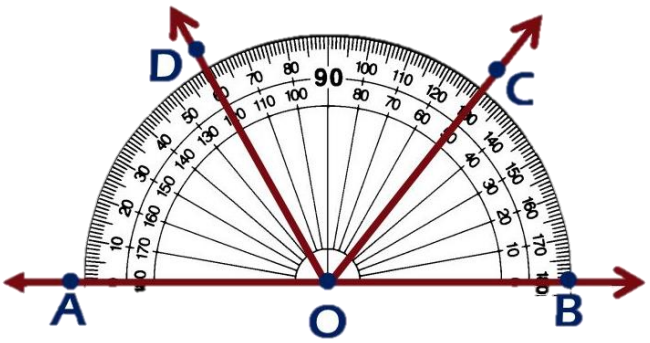
Name: _____ Pd. ____ Date: _____ **Quiz Review Sheet**

1. Use the diagram below for problem 1: Find the measure of angles ∠AOD, ∠DOC, ∠COB, ∠AOC, ∠DOB.



m∠AOD = _____ m∠DOC = _____

m∠COB = _____ m∠AOC = _____

m∠DOB = _____

2. Angle R is 30 degrees less than twice the measure of Angle T. Angles R and T are supplementary. Find the measure of each angle.

m∠R = _____

m∠T = _____

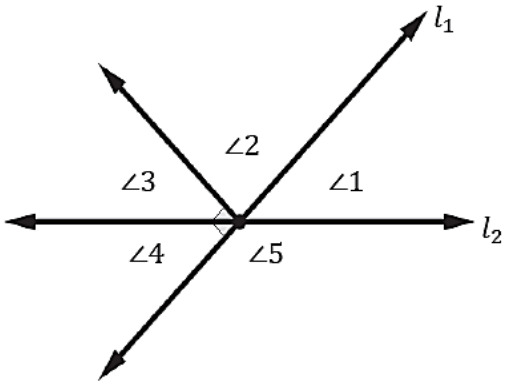
3. Angle A and B are complementary. The m∠A = x + 5 and m∠B = 4x – 15. Find x, the m∠A and the m∠B.

x = _____

m∠A = _____

m∠B = _____

4. Which of the following statements are correct? Select all that apply.
   a.) ∠1 and ∠4 are vertical angles.
   b.) ∠3 and ∠4 are complementary angles.
   c.) ∠5 and ∠4 are supplementary angles.
   d.) ∠1 and ∠3 form a linear pair.
   e.) ∠1 and ∠2 are adjacent angles.
   f.) ∠5 is a vertical angle to the combination of ∠2 & ∠3.



5. Using the diagram in problem 4. If the m∠3 = 36, find the measure of all other angles.

6. If ∠MFG and ∠EFN are vertical angles and m∠MFG = 7x – 18 and m∠EFN = 5x + 10, find the value of x and the measure of each angle.

x = _____

m∠MFG = _____

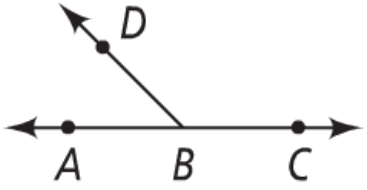
m∠EFN = _____

7. If m∠CBD = 5x + 25 and m∠ABD = 2x + 29 find the value of x and the measure of each angle.

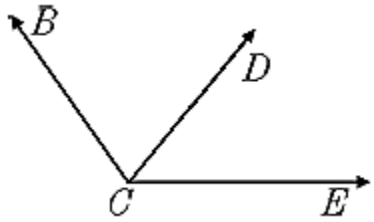
x = _____

m∠CBD = _____

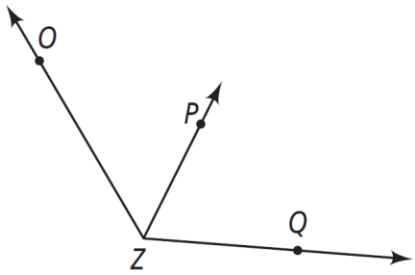
m∠ABD = _____



8. If m∠ECB = 6x and m∠ECD = 3x – 11 and m∠DCB = 74. What is the value of x?



9. In the diagram below $\overrightarrow{ZP}$ *bisects* $\angle OZQ$, $m\angle OZP = 9x - 2$ and $m\angle QZP = 5x + 14$. Find x, the measure of each angle and m∠OZQ.



x = _____

m∠OZP = _____ m∠PZQ = _____ m∠OZQ = _____