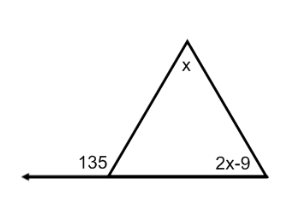
Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
Common Core Geometry Period: \_\_\_\_\_\_\_\_\_\_\_\_\_

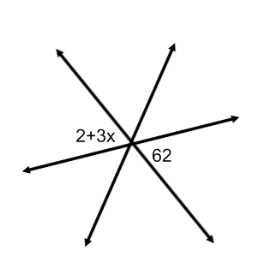
**Chapter 2 Extra Review – Unknown Angles**

|  |  |
| --- | --- |
| 1. In the accompanying diagram, lines *a* and *b* are parallel and line *c* is a transversal. List a pair of  alternate interior angles \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  corresponding angles \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  alternate exterior angles \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  same side interior angles \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 2. In the diagram below of two parallel lines cut by a transversal, and .  Find .  1  2 |
| 3. Which choice below may ***not*** be used to name ?    (1) (2)  (3) (4) | 4. |
| 5. The number of degrees in the measure of each of a pair of *vertical angles* formed by two intersecting lines is represented by 6*x* + 10 and 5*x* + 25. Find the measure of one of these angles. | 6. The measures of the angles of a triangle are 2x, 3x, and 4x. The measure of the *largest* angle of this triangle is |

**Part II:**

7. Find the value of . 8. Find the value of .

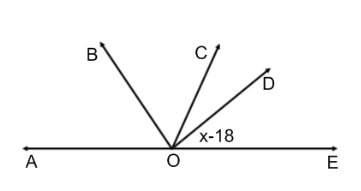




**Part III:**

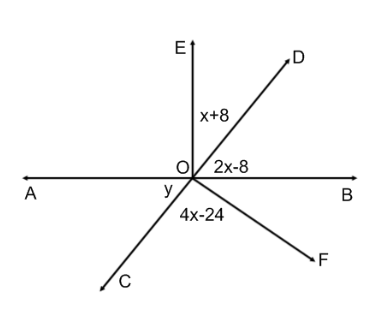
9. Using the figure below and the given information, find the value of and . SHOW ALL WORK!

, ,



**Part IV:**

10. In the figure below, and are straight lines that intersect at O. .



Find the following and give a reason for each step.

x = \_\_\_\_\_\_\_\_

y = \_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_