

Name \_\_\_\_\_

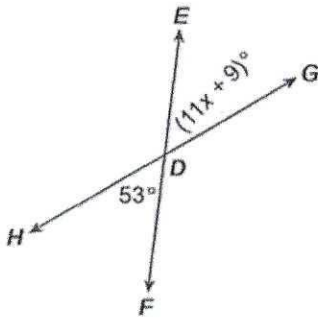
Date \_\_\_\_\_

Mrs. Roubos

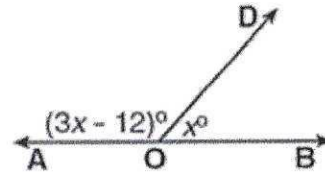
8R Period \_\_\_\_\_

Homework #35

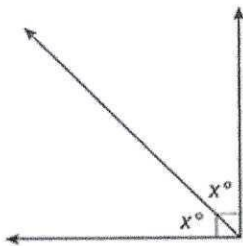
1) In the accompanying diagram, line  $\overleftrightarrow{EF}$  and line  $\overleftrightarrow{GH}$  intersect at point D. If  $m\angle GDE = (11x + 9)^\circ$  and  $m\angle FDH = 53^\circ$ , find the value of x.



2) In the accompanying diagram, line  $\overleftrightarrow{AOB}$  is a straight line,  $m\angle AOD = (3x - 12)^\circ$  and  $m\angle BOD = x^\circ$ , find the value of x.



3) Solve for x in the diagram below.



4) In the accompanying diagram, the adjacent angles formed by intersecting lines line  $\overleftrightarrow{AB}$  and  $\overleftrightarrow{CD}$  have measures  $(3x + 50)^\circ$  and  $(x + 10)^\circ$ , respectively. Solve for x, then solve for the  $m\angle AED$ .

