Name: _____ Date: _____ Row: _____ Period: _____

NOTES SECTION 1.4: PAIRS OF ANGLES – DAY 2

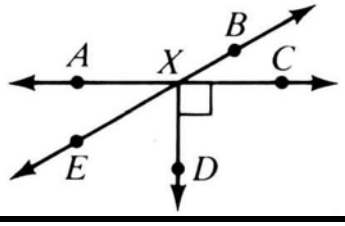
COMPLEMENTARY ANGLES

SUPPLEMENTARY ANGLES

VERTICAL ANGLES

ADJACENT ANGLES

1-4: In the diagram, $\angle CXD$ is a right angle. Name:



1) another right angle
2) two congruent supplementary angles
3) two noncongruent supplementary angles
4) two complementary angles

5-6: $\angle A$ and $\angle B$ are supplementary.
Find the value of x, $m(\angle A)$, and $m(\angle B)$.

5) $m(\angle A) = 3x$
$m(\angle B) =$ _____

6) $m(\angle A) = x + 11$
$m(\angle B) =$ _____

7-8: $\angle C$ and $\angle D$ are complementary.
Find the value of y, $m(\angle C)$, and $m(\angle D)$.

7) $m(\angle C) = y + 11$
$m(\angle D) =$ _____

8) $m(\angle C) = 3y + 5$
$m(\angle D) =$ _____

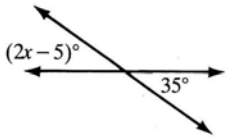
9-11: Use the given information to write an equation and solve the problem.

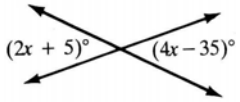
9) Find the measure of an angle that is _____ as large as its complement.

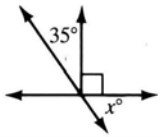
10) A supplement of an angle is _____ times as large as the angle. Find the measure of the angle.

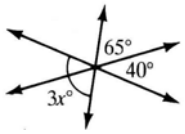
11) The measure of a complement of an angle is _____ more than twice the measure of the angle. Find the measures of the angle and its complement.

12-15: Find the value of x.

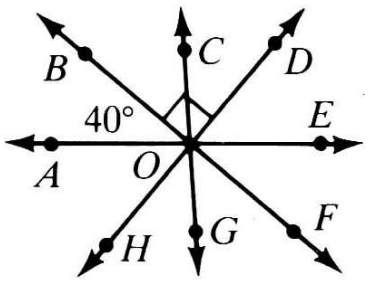
12)


13)


14)


15)


16-21: In the diagram $\overrightarrow{OC}$ bisects $\angle BOD$, $m(\angle BOD) = 90$, and $m(\angle BOA) = 40$. Find:



16) $m(\angle BOC)$

17) $m(\angle FOG)$

18) $m(\angle AOH)$

19) $m(\angle HOE)$

20) $m(\angle DOE)$

21) $m(\angle AOE)$