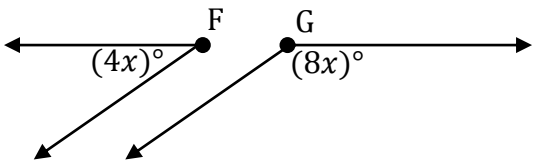
NAME_____DATE_____PER._____

1.6 SPECIAL ANGLE PAIRS

Identify the type of angle pair and solve for 'x' in each of the following problems.

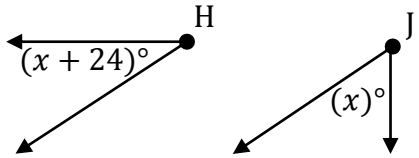
1. $m\angle \mathrm{F} + m\angle \mathrm{G} = 180°$



Type of pair:_____

$x =$ _____

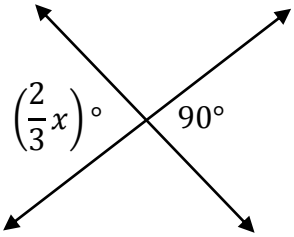
2. $m\angle \mathrm{H} + m\angle \mathrm{J} = 90°$



Type of pair:_____

$x =$ _____

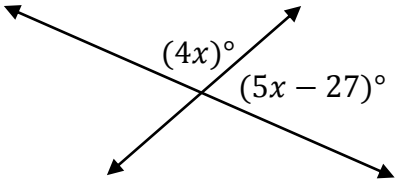
3.



Type of pair:_____

$x =$ _____

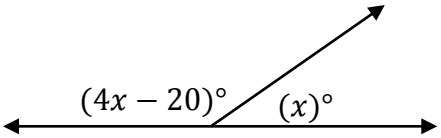
4.



Type of pair:_____

$x =$ _____

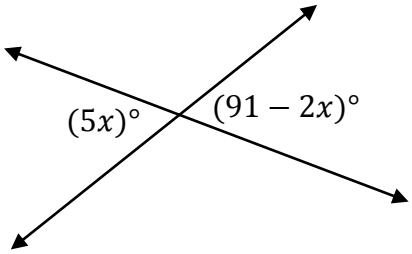
5.



Type of pair:_____

$x =$ _____

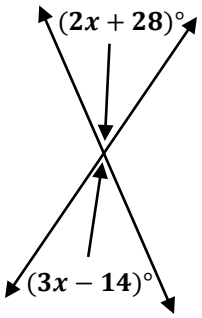
6.



Type of pair:_____

$x =$ _____

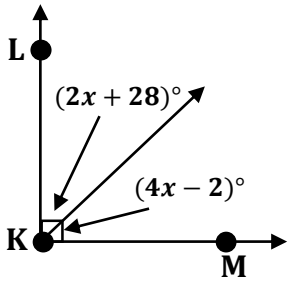
7.



Type of pair:_____

$x =$ _____

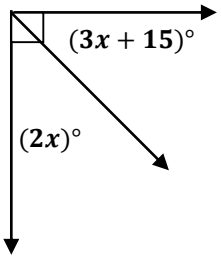
8.



Type of pair:_____

$x =$ _____

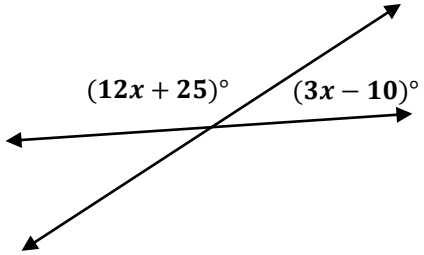
9.



Type of pair:_____

$x =$ _____

10.



Type of pair:_____

$x =$ _____

11. Find the measures of two complementary angles, $\angle A$ and $\angle B$, if $m\angle A = (7x + 4)°$ and $m\angle B = (4x + 9)°$.

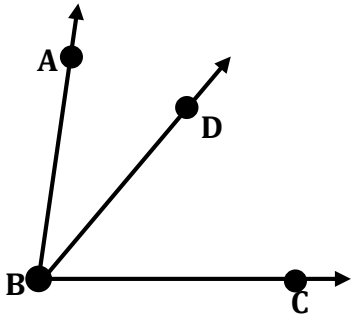
$m\angle A =$ _____; $m\angle B =$ _____

12. Find the measure of two supplementary angles, $\angle A$ and $\angle B$, if $m\angle A = (3x - 7)°$ and $m\angle B = (2x + 2)°$.

$m\angle A =$ _____; $m\angle B =$ _____

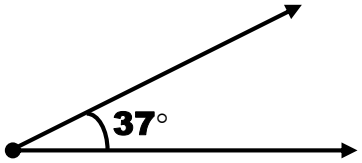
REVIEW

13. $m\angle ABD = (3x + 1)°$, $m\angle DBC = (4x - 7)°$ and $m\angle ABC = 85°$. Find $m\angle ABD$.

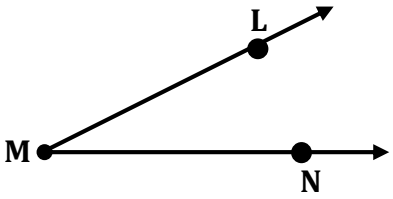


$m\angle ABD =$ _____

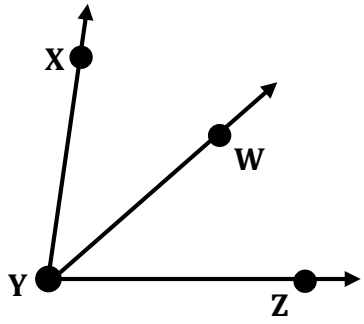
14. Classify the angle:_____



15. Name the sides of this angle:_____



16. $\overrightarrow{YW}$ is a bisector of $\angle XYZ$. $m\angle XYW = (8x - 5)°$ and $m\angle WYZ = (6x + 17)°$. Find the $m\angle XYZ$.



$m\angle XYZ =$ _____

17. Find the distance between $A(0, 3)$ and $B(2, 7)$.

$AB =$ _____

18. Find the midpoint of $\overline{AB}$ described in #17.

$M =$ (_____, _____)