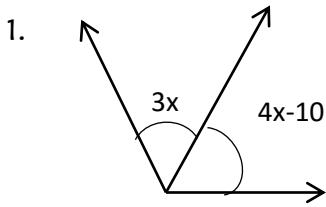


1.4 DAY 2 HOMEWORK

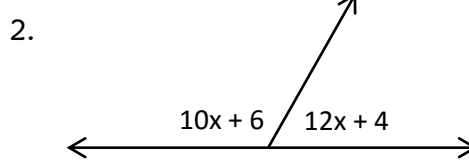
NAME:

Key

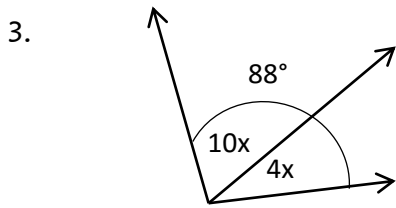
Set up the equations you would use to solve for x only! DO NOT SOLVE!



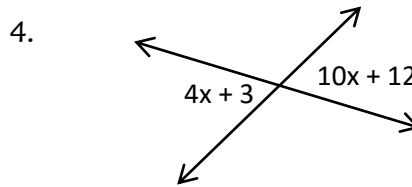
Equation: $3x = 4x - 10$



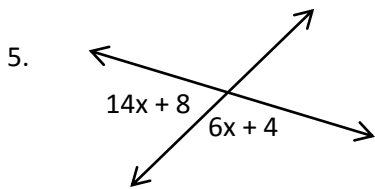
Equation: $10x + 6 + 12x + 4 = 180$



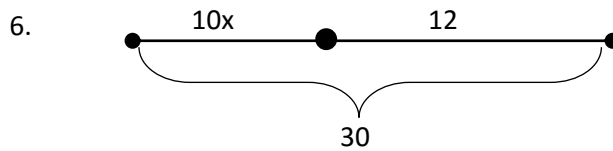
Equation: $10x + 4x = 88$



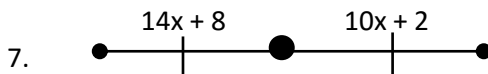
Equation: $4x + 3 = 10x + 12$



Equation: $14x + 8 + 6x + 4 = 180$

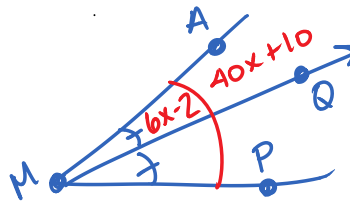


Equation: $10x + 12 = 30$



Equation: $14x + 8 = 10x + 2$

8. \overline{MQ} bisects $\angle AMP$, $\angle AMP = 40x + 10$, $\angle AMQ = 6x - 2$



Equation: $6x - 2 + 6x - 2 = 40x + 10$

NOW... PLEASE SOLVE THE PROBLEMS COMPLETELY!

9. A supplement of an angle is 3 times the complement of the angle. Find the angle.

$$\boxed{x=45}$$

10. An angle's measure is 6 degrees more than three times the measure of the complement. Find the measure of the complement.

$$\boxed{21}$$

11. The measure of two supplementary angles are in a ratio of 7:5. What is the value of the smaller angle?

$$\boxed{75^\circ}$$

12. An angle measures 12 degrees less than three times its supplement. Find the measure of the angle.

$$\boxed{x=132}$$

13. An angle is its own complement. Find the Measure of the supplement of the angle.

$$\boxed{135}$$

14. Angle DEF and Angle FEG are supplementary. $m\angle DEF = 9x + 1$, $m\angle FEG = 8x + 9$. Find both angles.

$$\begin{aligned} m\angle DEF &= \boxed{91^\circ} \\ m\angle FEG &= \boxed{89^\circ} \end{aligned}$$