

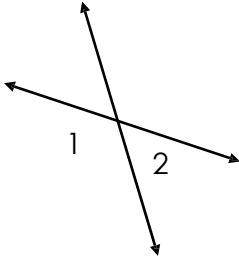
Name: _____

Unit 1: Quiz

Date: _____

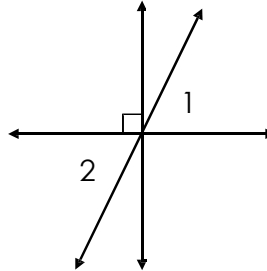
Geometry Basics

1. Classify $\angle 1$ and $\angle 2$ using all relationships that apply. (hint: 3 answers)



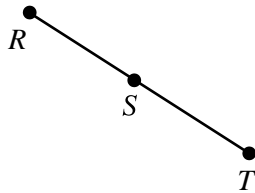
- Adjacent
- Vertical
- Complementary
- Supplementary
- Linear Pair
- Congruent

2. Classify $\angle 1$ and $\angle 2$ using all relationships that apply. (Hint 2 answers)



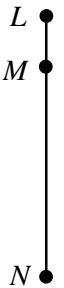
- Adjacent
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- Supplementary
- Linear Pair
- Congruent

3. If $RS = 23 - 2x$, $ST = 9x - 5$, and $RT = 39$, find RS .



$RS =$

4. If $LN = 6x - 5$, $LM = x + 7$, and $MN = 3x + 20$, find MN .



$MN =$

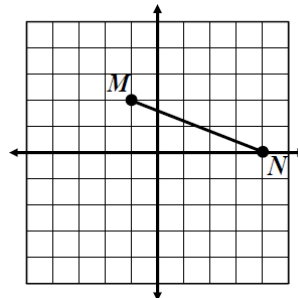
5. Given the points below, find XY . Round to the nearest tenth.

$X(-9, 2)$ and $Y(5, -4)$

$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

$XY =$

6. Given the graph below, find MN . Round to the nearest tenth. (Use distance formula in #5)



$MN =$

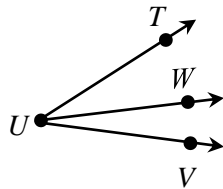
7. Find the midpoint of \overline{AB} if $A(-3, 8)$ and $B(-7, -6)$.

(,)

8. If Q is the midpoint of \overline{PR} , find the coordinates of R if $P(11, -2)$ and $Q(4, 3)$.
(Hint: draw a picture)

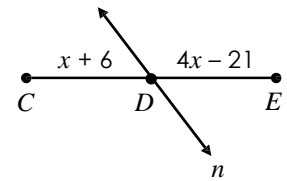
(,)

9. If $m\angle TUV = (9x + 1)^\circ$, $m\angle TUW = (7x - 9)^\circ$, and $m\angle WUV = (5x - 11)^\circ$, find the value of x .



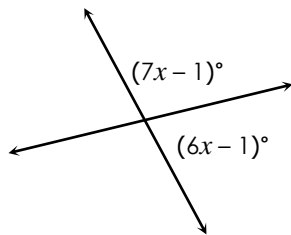
$x =$

10. If line n bisects \overline{CE} , find CD .



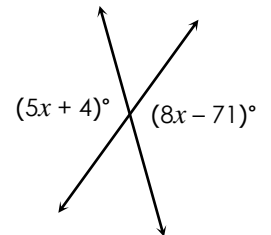
$CD =$

11. Find the value of x .



$x =$

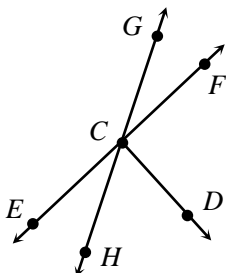
12. Find the value of x .



$x =$

B. If $\overline{CD} \perp \overline{EF}$, $m\angle ECH = (x + 5)^\circ$ and $m\angle HCD = (3x - 7)^\circ$, find each missing value.

****BONUS****



- a) $x =$ _____
- b) $m\angle ECH =$ _____
- c) $m\angle HCD =$ _____
- d) $m\angle GCF =$ _____
- e) $m\angle ECG =$ _____
- f) $m\angle GCD =$ _____