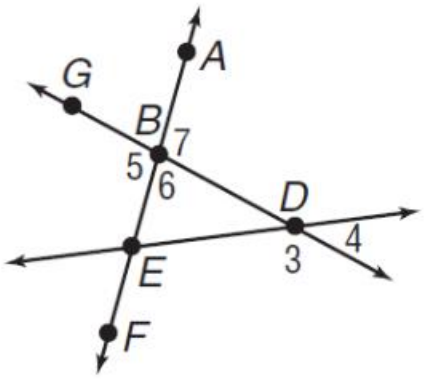
**Geometry Unit 1A Test Review** **Name _____**

**Hour _____**

**Directions: Use the figure to answer questions 1-3.**

**Students must review vocabulary as vocabulary will be assessed on the test. ☺**




1) Name <u>all</u> angles that have B as a vertex.

2) Name a pair of supplementary angles.

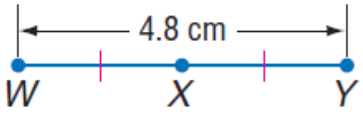
3) Name a pair of vertical angles.

4) Simplify the radical: $\sqrt{192}$

5) Find the value of the variable and *ST* if *S* is between *R* and *T*. Let RS= 16, ST = 2x, RT = 5x + 10. You must show all of your work, justify, and show geometry.

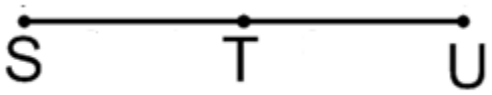
6) Find the value of x and *SR* if *R* is between *S* and *T*. *SR* = 3x, *RT* = 2x + 1, *ST* = 6x – 1. You must show all of your work, justify, and show geometry.

7) Using the picture to the right, find the length of $\overline{XY}$. You must show all of your work, justify, and show geometry.

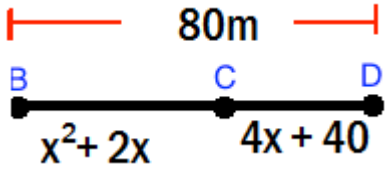



8) Find the value of x and $\overline{ST}$ using the figure to the right if T is the midpoint of SU. You must show all of your work, justify, and show geometry.

9) Find the value(s) of x and $\overline{ST}$ using the figure to the right if T is the midpoint of SU, $ST = (x-4)^2$, and TU = 9cm. You must show all of your work, justify, check your answers, and show geometry.

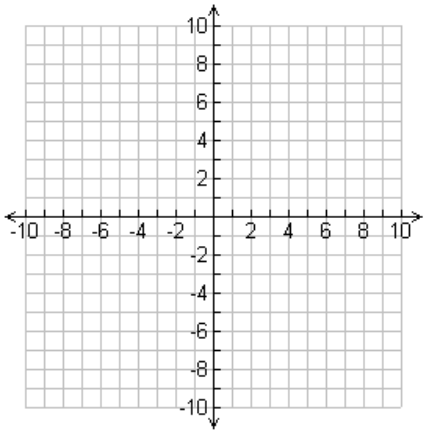



10) Find the value(s) of x and *BC*. You must show all of your work, justify, check your answers, and show geometry.



**Directions: Find the distance, midpoint, and slope of each segment. You must simplify radicals and fractions!**

11) J(4, 2), K(8, -6)




Distance: _____

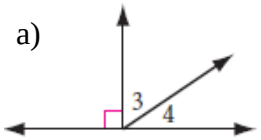
Midpoint:_____

Slope: _____

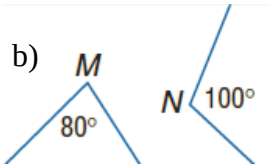
12) Find the coordinate of the endpoint S if T is the midpoint of RS and T(3, 4) and R(-2, 3).
STUDY THIS!!

13) Classify all that apply: adjacent, vertical, linear pairs, complementary, supplementary, right angle and/or congruent.

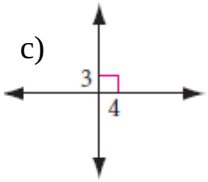
a)



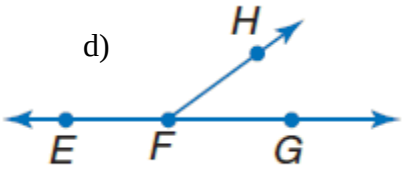

b)



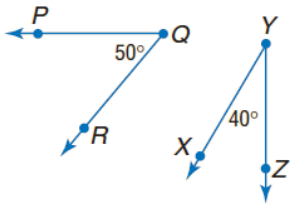

c)



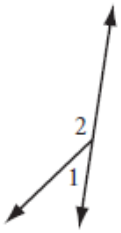

d)




e)




f)




14) Draw $\overline{FE} \perp \overline{DC}$

15) Draw $\overline{WX} \cong \overline{YZ}$

16) Draw $< QRS \text{ and } < QRT \text{ are a linear pair}$

17) Draw $\overleftrightarrow{AB} \text{ is a } \perp \text{ bisector of } \overline{ST}$

18) Draw $\overrightarrow{ET} \text{ is an angle bisector of } \angle REO$

19) Draw $\overline{QR} \text{ is a segment bisector of } \overline{ST}$