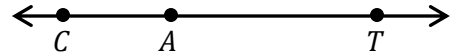


For questions #1-7, determine whether they are true or false. If they are false, explain why.

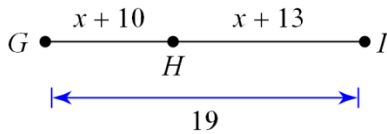
- 1.) \overrightarrow{AB} and \overrightarrow{BA} are the same ray.
- 2.) Two points are always collinear.
- 3.) Point, line and a segment are the three undefined terms in Geometry.
- 4.) To have a definition the converse and the conditional must both be true.
- 5.) To create a construction, you need a ruler and a compass.

6.) For the line sketched to the right, one name is \overleftrightarrow{CAT} .

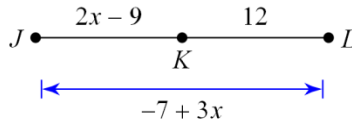


7.) $\angle XYZ$ means the same thing as $m\angle XYZ$.

8.) Solve for x .

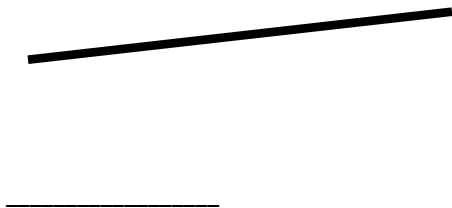


9.) Find JK .

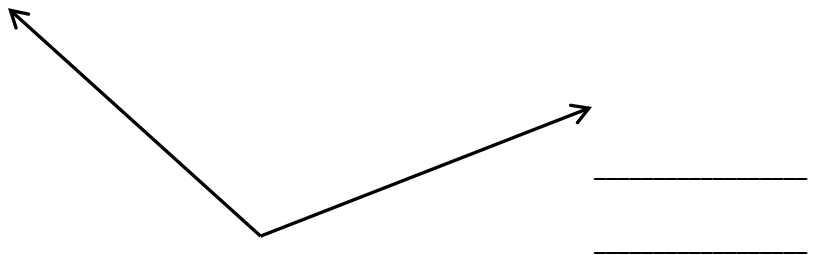


10.) A, B and C are collinear, with B in-between A and C . $AB = 2x$, $BC = 8$, and $AC = 3x + 5$. Find AC .

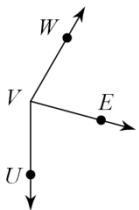
11.) Measure the segment in centimeters. Round to the nearest millimeter.



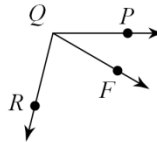
12.) Measure the angle to the nearest degree. Also, classify the angle as obtuse, acute, or straight.



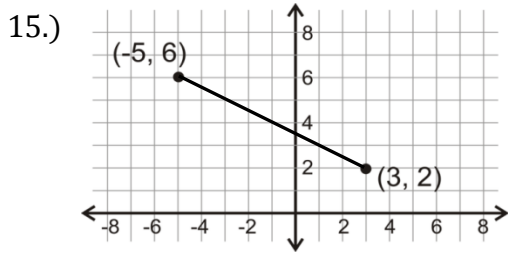
13.) Find x if $m\angle EVU = 26x - 3$, $m\angle WVU = 150^\circ$, and $m\angle WVE = 26x - 3$.



14.) $m\angle PQR = 104^\circ$, $m\angle PQF = x + 34$, and $m\angle FQR = x + 78$. Find $m\angle FQR$.



Questions #15 & 16, calculate the distance between the points.



16.) $(-2, -3), (4, 6)$

17.) Calculate the midpoint. $(3, -2), (8, -1)$

Midpoint: _____

18.) Given the statements “the dog barks” and “a stranger walks by”

- Write the conditional statement
- Draw the Euler Diagram that represents the conditional
- Write the converse of the conditional
- Write the biconditional
- Is your biconditional statement a definition? Explain.

19.) Complete the algebraic proofs.

$$-2(x - 1) = 6$$

$$2(2x - 3) = 12 + x$$

Statement	Reason

Statement	Reason

20.) Construct a perpendicular bisector.

