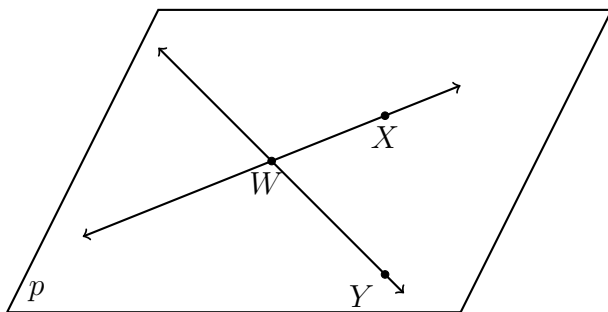


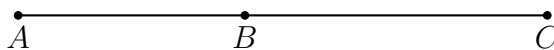
11.1 Quiz Trigonometry

HSG.SRT.C.8

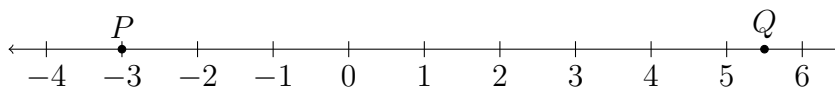
- Points that are all located on the same plane are _____.
- Identify three points in the given plane.



- Given \overline{ABC} , $AB = 3x - 4$, $BC = x + 5$, $AC = 13$. Find BC .
Check your answer for full credit.

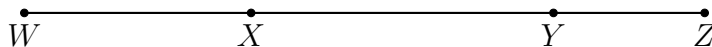


- Given \overrightarrow{PQ} as shown on the number line, with $P = -3$ and $Q = 5.5$.



What is the exact distance on the number line between the points P and Q ?

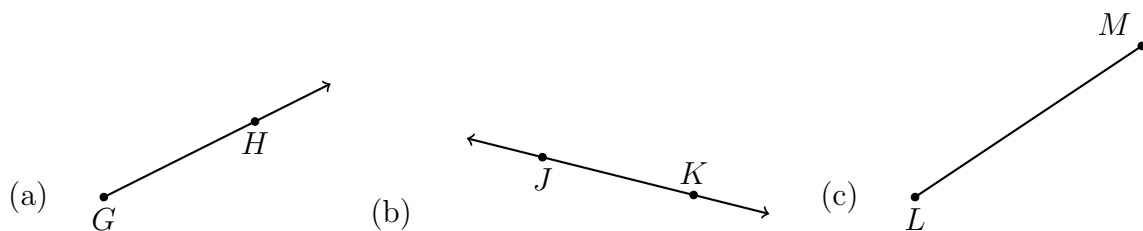
- Given \overline{WXYZ} , $WX = 3\frac{1}{2}$, $XY = 4\frac{3}{4}$, and $YZ = 1\frac{1}{4}$.
Find WZ .



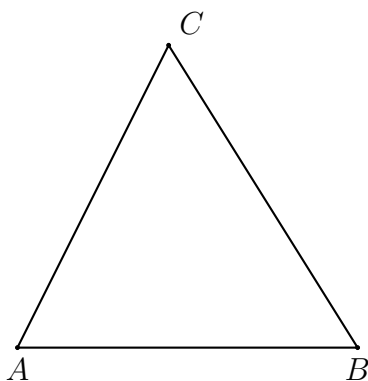
- Given the points V and W , draw \overrightarrow{WV} .

\dot{V}
 \dot{W}

7. Use symbols to write the name of each geometric figure.



8. Given $\triangle ABC$ with $\overline{AB} \cong \overline{AC}$. On the diagram mark the congruent line segments with tick marks.

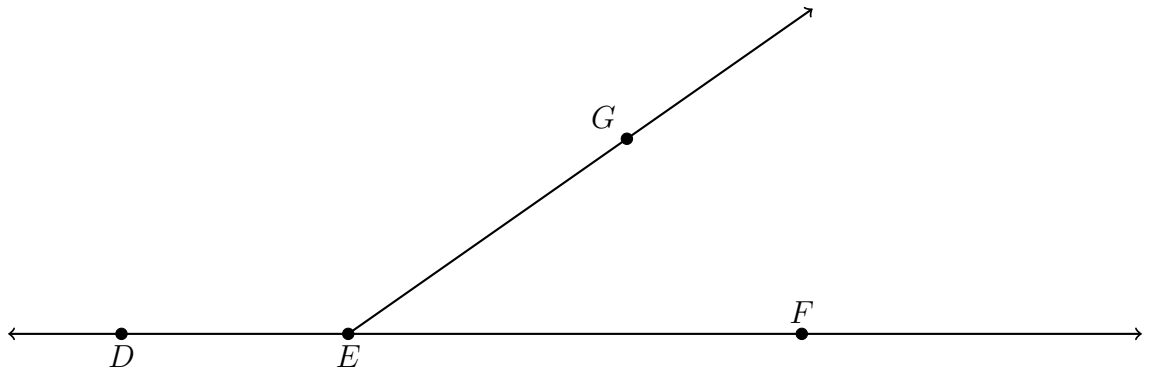


9. Find the measure of the angle in degrees and the given segment's length in centimeters.

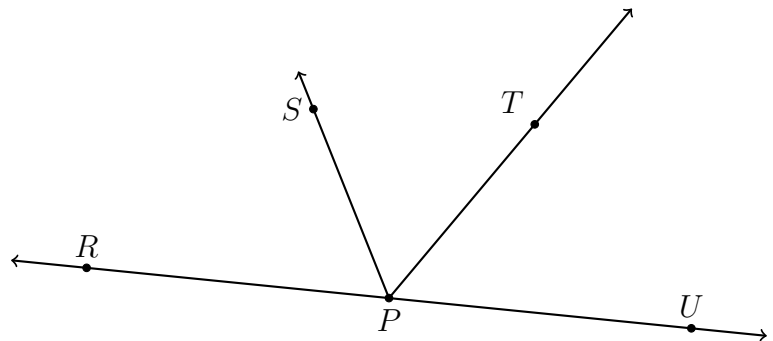
(a) $m\angle GEF = \underline{\hspace{2cm}}$

(b) $EG = \underline{\hspace{2cm}}$

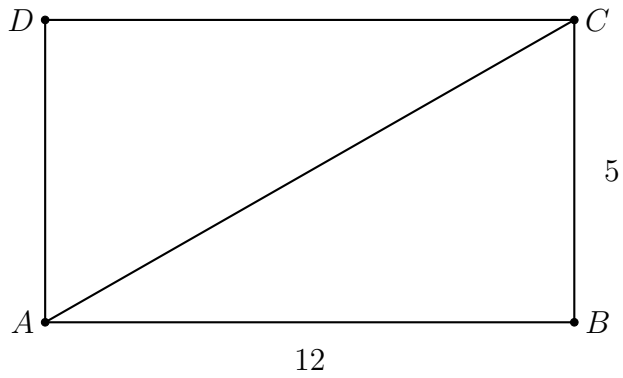
(c) Name a pair of opposite rays: $\underline{\hspace{2cm}}$



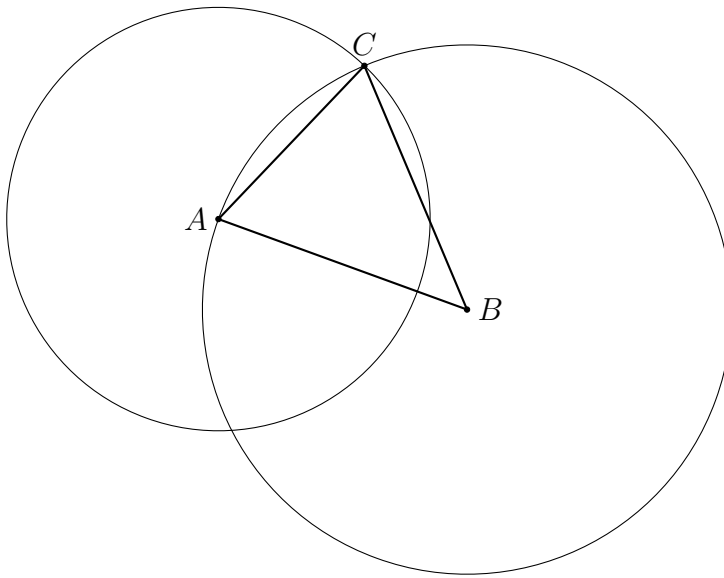
10. Use each term according to its geometric meaning: “sketch”, “draw”, “construct”.
- (a) _____ is to make a freehand diagram showing important features.
 - (b) _____ is to depict with accurate measures using ruler, protractor, and compass.
 - (c) _____ is a formal, logical process to create geometric figures using only a straightedge and compass.
11. Given the situation in the diagram, answer each question. Circle True or False.



- (a) True or False: \overrightarrow{PR} and \overrightarrow{PU} are opposite rays.
 - (b) True or False: $\angle TPR$ is an obtuse angle.
 - (c) True or False: $\angle RPS$ and $\angle TPU$ are adjacent angles.
12. Given the rectangle $ABCD$ shown below, with $AB = 12$ and $BC = 5$. The diagonal \overline{AC} is drawn to create two triangles. Find the area of the lower triangle, $\triangle ABC$.



13. A student constructs a triangle with a given side, \overline{AB} as shown below. Is $\triangle ABC$ equilateral? Justify your answer by explaining what was done incorrectly and how it should have been done.



Name:

14. In the following two problems, solve for the value of x .

(a) $3(x - 5) = -33$

(b) $3 - \frac{1}{2}x = 2$

15. In the following two problems, solve for the value of x by factoring.

(a) $x^2 + 6x = -5$

(b) $x^2 = x + 12$