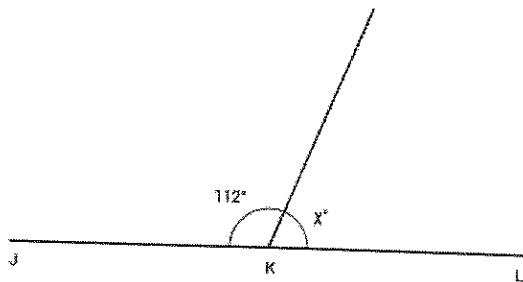


G4-M4-Lesson 10

1. Write an equation, and solve for the measurement of $\angle x$. Verify the measurement using a protractor.

a. $\angle JKL$ is a straight angle.

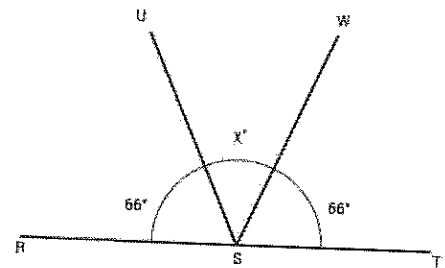


$$\begin{aligned} 112^\circ + 68^\circ &= 180^\circ \\ x^\circ &= 68^\circ \end{aligned}$$

$$\begin{array}{r} 7 \quad 10 \\ 1 \quad 8 \quad 0 \\ - 1 \quad 3 \quad 2 \\ \hline 0 \quad 4 \quad 8 \end{array}$$

I know a straight angle measures 180° . I subtract 112° from 180° to find the value of x° . To verify my answer, I use my protractor to measure the angle. It measures 68° .

b. Solve for the measurement of $\angle USW$. $\angle RST$ is a straight angle.



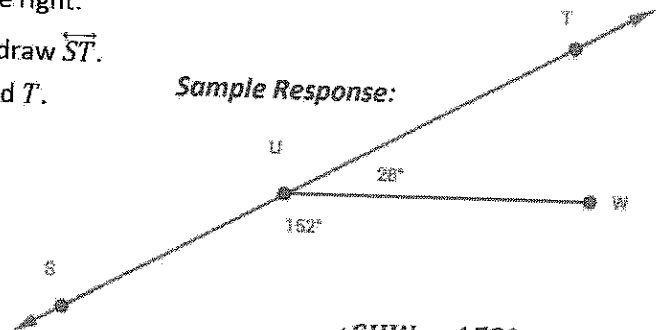
$$\begin{aligned} 66^\circ + 66^\circ + x^\circ &= 180^\circ \\ 132^\circ + x^\circ &= 180^\circ \\ x^\circ &= 48^\circ \\ \angle USW &= 48^\circ \end{aligned}$$

I know that the sum of these three angle measures is 180° . I add the two parts that I know and then I subtract their total from 180° .

2. Complete the following directions in the space to the right.

- Draw 2 points: S and T . Using a straightedge, draw \overleftrightarrow{ST} .
- Plot a point U somewhere between points S and T .
- Plot a point W , which is not on \overleftrightarrow{ST} .
- Draw \overline{UW} .
- Find the measure of $\angle SUW$ and $\angle TUW$.
- Write an equation to show that the angles add to the measure of a straight angle.

Sample Response:



$$\angle SUW = 152^\circ$$

$$\angle TUW = 28^\circ$$

$$152^\circ + 28^\circ = 180^\circ$$

I draw the figure. I use my protractor to measure $\angle SUW$ and $\angle TUW$.