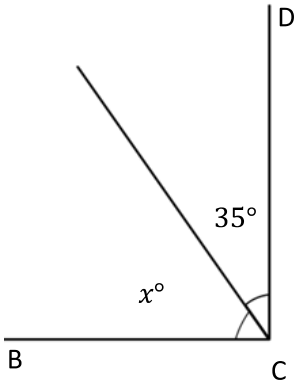
Name _____ Date _____

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

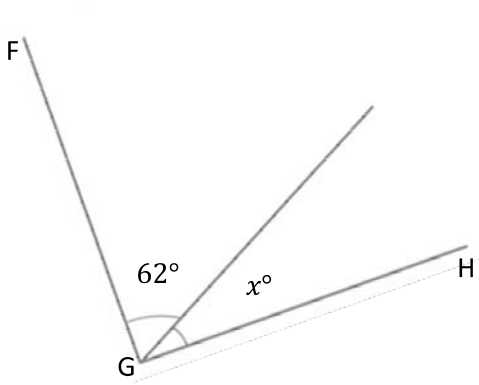
1. $\angle DCB$ is a right angle.



_____ + 35° = 90°

x° = _____

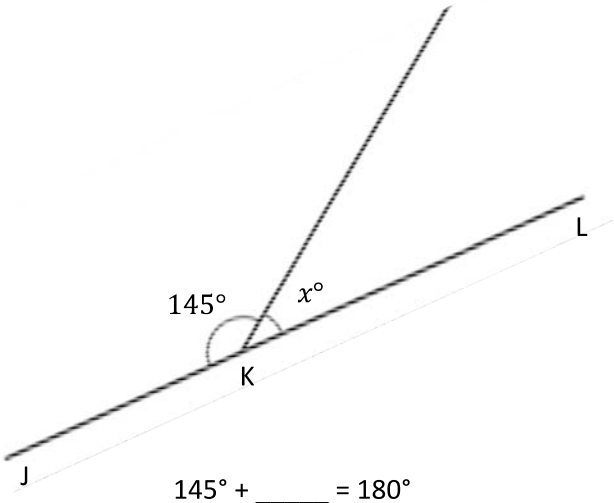
2. $\angle HGF$ is a right angle.



_____ + _____ = _____

x° = _____

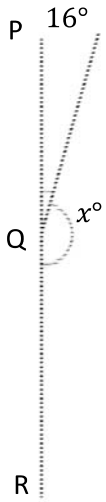
3. $\angle JKL$ is a straight angle.



145° + _____ = 180°

x° = _____

4. $\angle PQR$ is a straight angle.



_____ + _____ = _____

x° = _____

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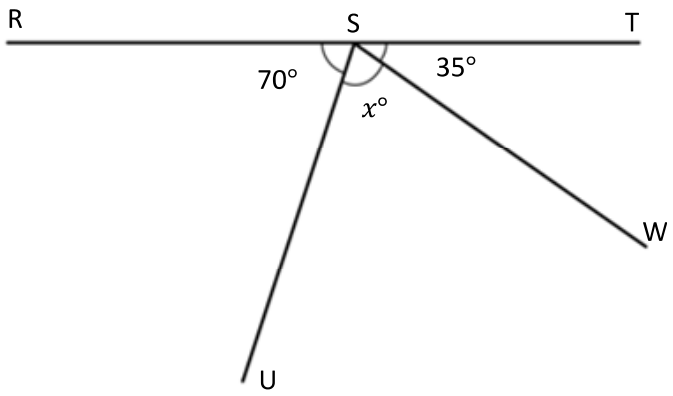
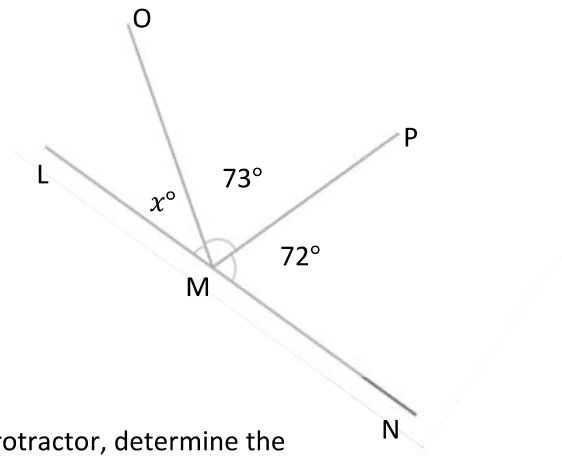
Directions: Write an equation and solve for the unknown angle measurements.

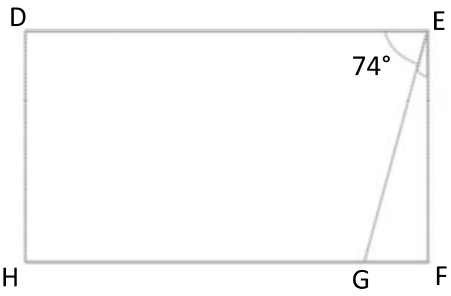
5. Solve for the measurement of $\angle USW$.
   $\angle RST$ is a straight angle.



6. Solve for the measurement of $\angle OML$.
   $\angle LMN$ is a straight angle.



7. In the following figure $DEFH$ is a rectangle. Without using a protractor, determine the measurement of $\angle GEF$. Write an equation that could be used to solve the problem.



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

   a. Draw 2 points Q and R. Using a straightedge, draw $\overleftrightarrow{QR}$.
   b. Plot a point S somewhere between points Q and R.
   c. Plot a point T, which is not on $\overleftrightarrow{QR}$.
   d. Draw $\overline{TS}$.
   e. Find the measure of $\angle QST$ and $\angle RST$.
   f. Write an equation to show that the angles add to the measure of a straight angle.

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