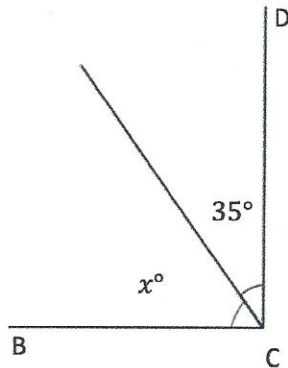


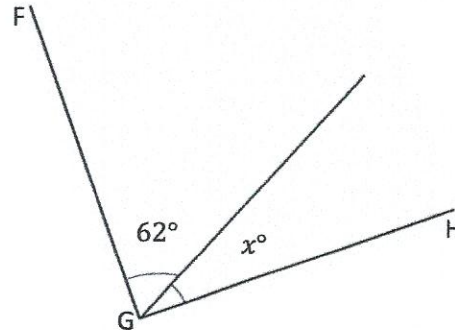
Name \_\_\_\_\_

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.

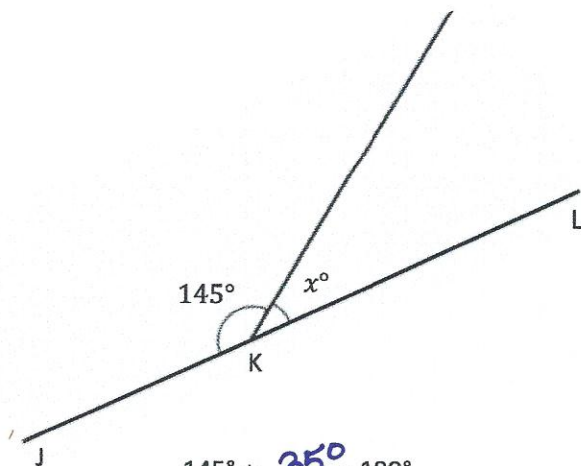
$$\underline{55^\circ} + 35^\circ = 90^\circ$$

$$x^\circ = \underline{55^\circ}$$

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

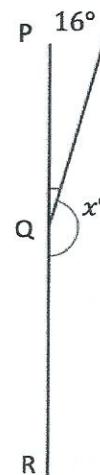
$$\underline{62^\circ} + \underline{28^\circ} = \underline{90^\circ}$$

$$x^\circ = \underline{28^\circ}$$

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

$$145^\circ + \underline{35^\circ} = 180^\circ$$

$$x^\circ = \underline{35^\circ}$$

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

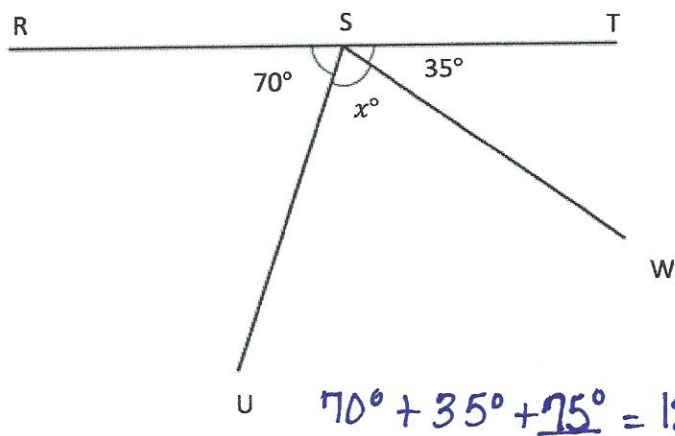
$$\underline{16^\circ} + \underline{164^\circ} = \underline{180^\circ}$$

$$x^\circ = \underline{164^\circ}$$

Write an equation and solve for the unknown angle measurements.

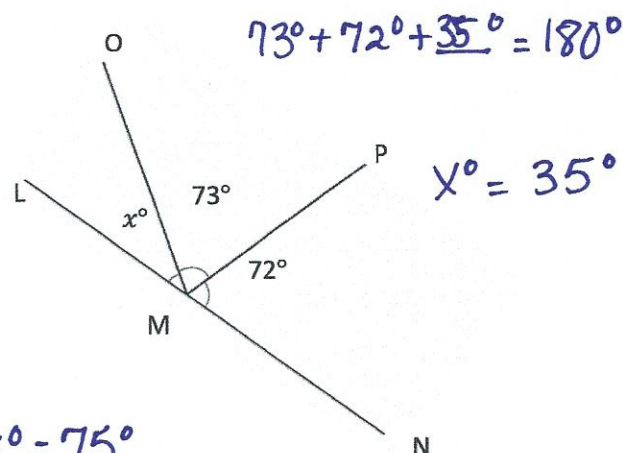
5. Solve for the measurement of  $\angle USW$ .

$\angle RST$  is a straight angle.

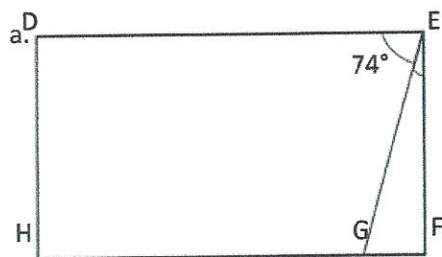


6. Solve for the measurement of  $\angle OML$ .

$\angle LMN$  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.



$$74^\circ + \underline{16^\circ} = 90^\circ$$

$$\angle GEF = 16^\circ$$

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

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

