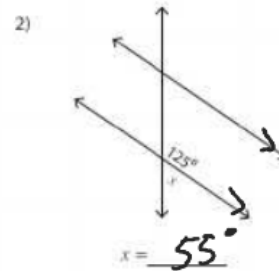
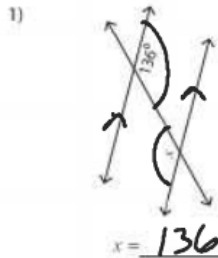


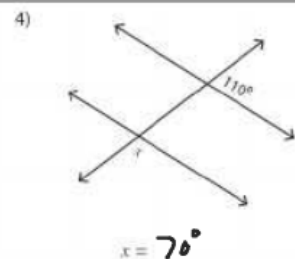
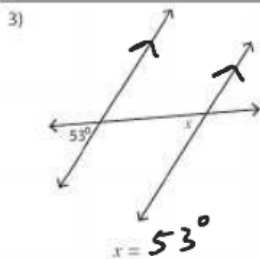
Angles that are in the same relative position with respect to each parallel line and the transversal are called **Corresponding Angles**. In the diagram on the previous page angles 1 and 5 are corresponding angles.

2. Examine the diagram you drew for Part C of Problems 1.
 - a. Name 3 other pairs of corresponding angles besides angles 1 and 5.
 - b. Suppose $m\angle 1 = 123^\circ$ (read the measure of angle 1 is 123 degrees.) Find the measure of as many other angles as you can in your diagram.

Assuming all lines that look parallel are parallel.
Find the value of x .



$$\begin{array}{r} x + 125 = 180 \\ -125 \quad -125 \\ \hline x = 55 \end{array}$$



$$\begin{array}{r} x + 110 = 180 \\ \hline x = 70 \end{array}$$

$$2x - 7 + 67 = 180$$

$$\begin{array}{r} 2x + 60 = 180 \\ -60 \quad -60 \end{array}$$

$$2x = 120$$

$$x = 60$$

$$\frac{10x}{10} = \frac{70}{10}$$

$$x = 7$$

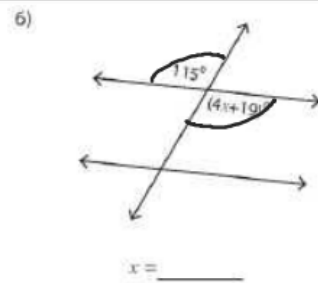
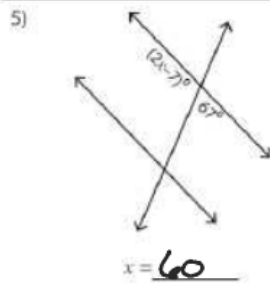
$$8x + 19 = 9x + 9$$

$$5x - 33 + 6x + 4 = 180$$

$$\begin{array}{r} 11x - 29 = 180 \\ +29 \quad +29 \end{array}$$

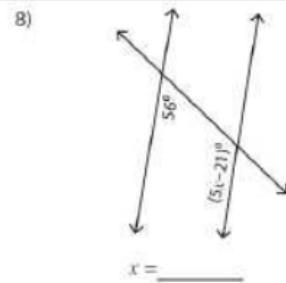
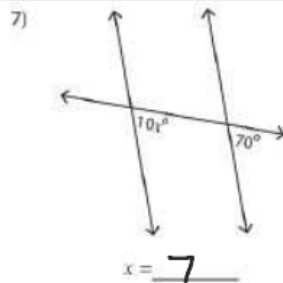
$$11x = 209$$

$$x = 19$$



$$\begin{array}{r} 4x + 19 = 115 \\ -19 \quad -19 \end{array}$$

$$\begin{array}{r} 4x = 96 \\ \frac{4x}{4} = \frac{96}{4} \\ x = 24 \end{array}$$

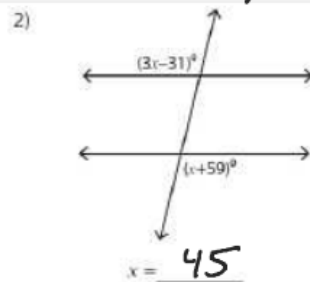
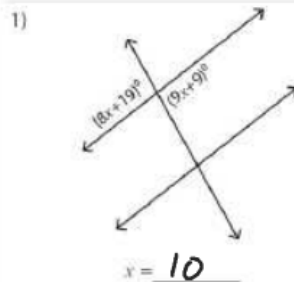


$$5x - 21 + 56 = 180$$

$$5x + 35 = 180$$

$$5x = 145$$

$$x = 29$$

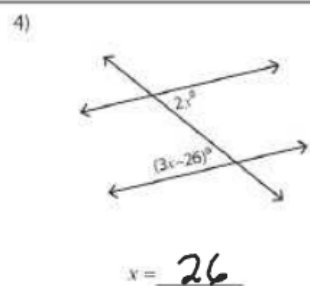
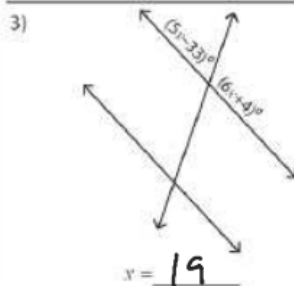


$$\begin{array}{r} 3x - 31 = x + 59 \\ -x \quad -x \end{array}$$

$$\begin{array}{r} 2x - 31 = 59 \\ +31 \quad +31 \end{array}$$

$$2x = 90$$

$$x = 45$$



$$\begin{array}{r} 2x = 3x - 26 \\ -3x \quad -3x \end{array}$$

$$-x = -26$$

$$x = 26$$