

Warm Up 1.7H

Name \_\_\_\_\_ Period \_\_\_\_\_

Find the solution to the system using substitution. (Show your work!!!)

1. 
$$\begin{cases} y = 2x - 3 \\ y = 3x + 11 \end{cases}$$

2. 
$$\begin{cases} x = 3y - 8 \\ 2y + x = 12 \end{cases}$$

3. 
$$\begin{cases} 6x + 24y = 360 \\ 32x + 80y = 1280 \end{cases}$$

4. 
$$\begin{cases} 12x + 20y = 480 \\ 16x + 20y = 480 \end{cases}$$

Solve the inequality and graph the solution on a number line. We will use this to discuss two types of notation in a moment (set notation and interval notation).

5.  $3x - 7 < 5x + 17$

6.  $13 + 8x \geq 5x + 25$