Warm Up 2.7

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. $\begin{cases} x = 60 - 4y \\ 32x + 80y = 1280 \end{cases}$

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

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

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

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