Unit 6: Linear Equations

Name: _____

6.4: Solving Linear Inequalities by Using Addition and Subtraction - Worksheet

1. Solve each inequality and then match each inequality with the graph of its solution.

b)
$$5 \ge m - 2$$

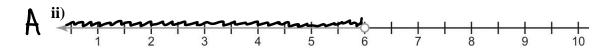
c)
$$2 + y \ge -4$$

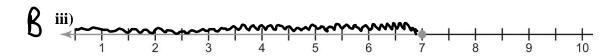


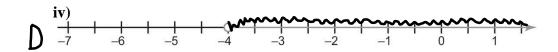
$$\begin{array}{c} \mathbf{d}) \ -1 < f + 3 \\ \mathbf{-3} \end{array}$$



 $C_{-10} \xrightarrow{-9} \xrightarrow{-8} \xrightarrow{-7} \xrightarrow{-6} \xrightarrow{-5} \xrightarrow{-4} \xrightarrow{-3} \xrightarrow{-2} \xrightarrow{-1}$







2. Solve, then graph each inequality.

a)
$$7t-4 > 3t+12$$

b)
$$4.2s - 15.25 \le 4 - 13s$$

+ 1.3s

$$\frac{5.5s}{5.5} \le \frac{19.25}{5.5}$$

c)
$$\frac{1}{2} + \frac{4}{7} \frac{10}{p} > \frac{13}{10} \times 7$$

$$\frac{35}{70} + \frac{40}{70} p > \frac{91}{70}$$

 $\frac{35}{70} + \frac{40}{70} p > \frac{91}{70}$ @ work with the numerators.

$$\frac{40p}{40} > \frac{56}{40}$$
 $p > \frac{7}{5} = 1\frac{2}{5} = 1.4$