

Graphing Lines Review

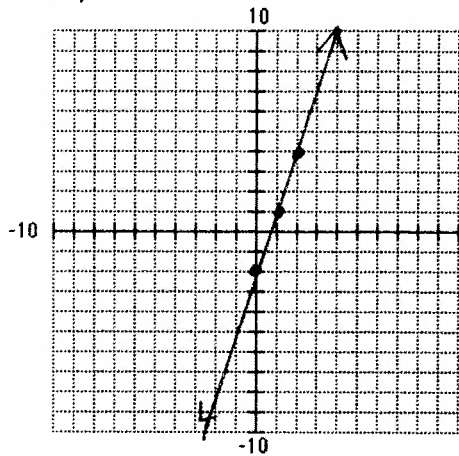
Name Master E

Date _____

Block 5

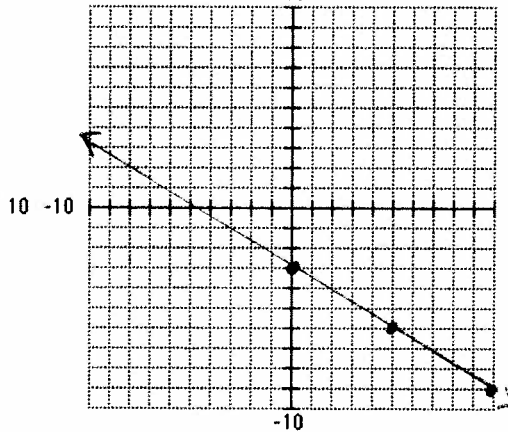
Graph each line using at least three distinct points

1. $y = 3x - 2$



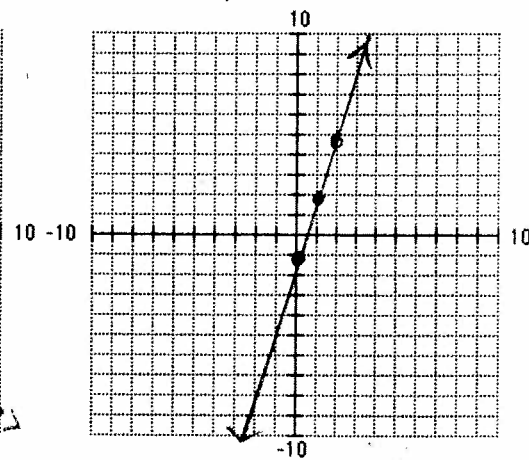
2. $3x + 5y = -15$

$5y = -3x - 15$
 $y = -\frac{3}{5}x - 3$

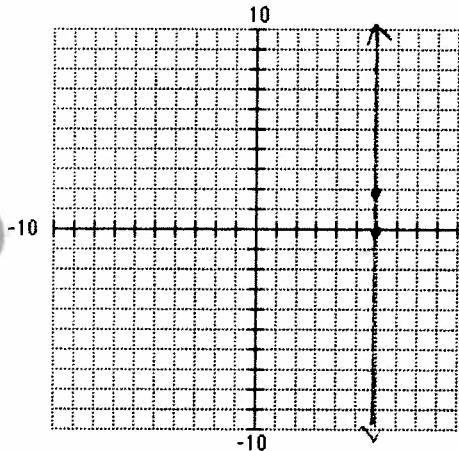


3. $15x - 5 = 5y$

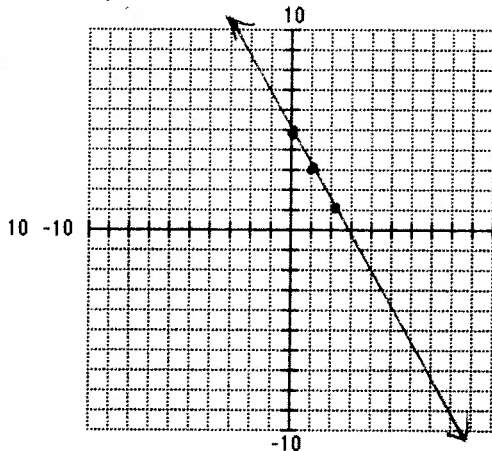
$y = 3x - 1$



4. $x = 6$

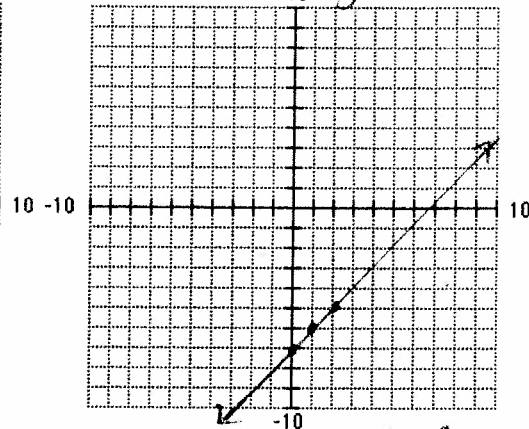


5. $y = -2x + 5$

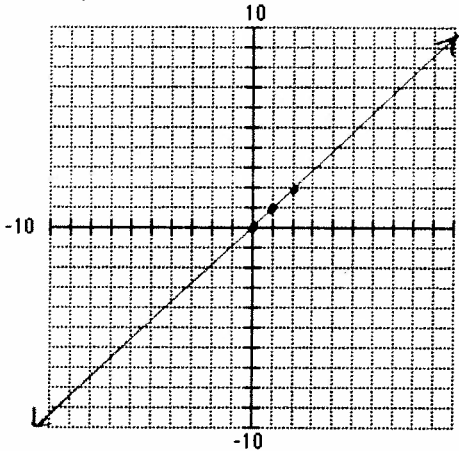


6. $x - y = 7$

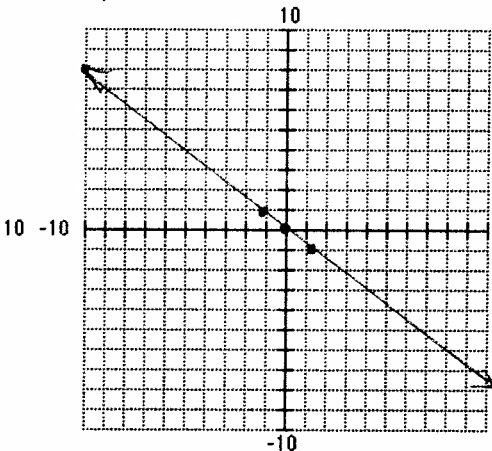
$-y = -x + 7$
 $y = x - 7$



7. $y = x$

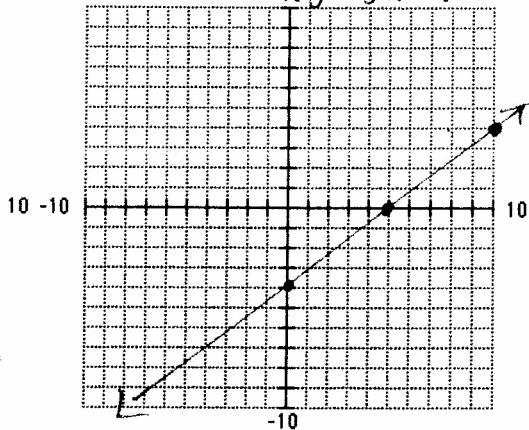


8. $y = -x$



9. $4x - 5y = 20$

$-5y = -4x + 20$
 $y = \frac{4}{5}x - 4$



State the slope of each line through the given points. (Do you remember how to find the slope?) Show your work.

10. $(-3, 4)$ $(5, -2)$

$\frac{-2-4}{5-(-3)} = \frac{-6}{8} = \left(-\frac{3}{4}\right)$

11. $(2, -3)$ $(4, -3)$

$\frac{-3-(-3)}{4-2} = \frac{0}{2} = 0$

12. $(-2, 3)$ $(-2, 5)$

$\frac{5-3}{-2-(-2)} = \frac{2}{0} = \text{undefined}$

13. $(6, -2)$ $(-4, -7)$

$\frac{-7-(-2)}{-4-6} = \frac{-5}{-10} = \frac{1}{2}$

Solving Compound Inequalities Review

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Solve each compound inequality.

$$1. 7 < 4x + 3 < 19$$

$$\begin{array}{r} -3 \quad -3 \quad -3 \\ \hline 4 < 4x < 16 \\ \frac{4}{4} \quad \frac{4}{4} \quad \frac{4}{4} \\ \hline 1 < x < 4 \end{array}$$

$$2. 3x + 1 < 7 \text{ or } 2x - 9 > 7$$

$$\begin{array}{r} -1 \quad -1 \quad +9 \quad +9 \\ \hline 3x < 6 \quad 2x > 16 \\ \hline x < 2 \text{ OR } x > 8 \end{array}$$

$$3. -5 < 0.5x + 1 \leq 4$$

$$\begin{array}{r} -1 \quad -1 \quad -1 \\ \hline -6 < 0.5x \leq 3 \\ \frac{-6}{.5} \quad \frac{-6}{.5} \quad \frac{3}{.5} \\ \hline -12 < x \leq 6 \end{array}$$

$$4. 3 + x < 1 \text{ or } x - 2 > -1$$

$$\begin{array}{r} -3 \quad -3 \quad +2 \quad +2 \\ \hline x < -2 \quad x > 1 \\ \hline x < -2 \text{ OR } x > 1 \end{array}$$

$$5. 2 < x + 4 < 11$$

$$\begin{array}{r} -4 \quad -4 \quad -4 \\ \hline -2 < x < 7 \end{array}$$

$$6. -2 \leq 2x - 10 \leq 6$$

$$\begin{array}{r} +10 \quad +10 \quad +10 \\ \hline 8 \leq 2x \leq 16 \\ \frac{8}{2} \quad \frac{8}{2} \quad \frac{16}{2} \\ \hline 4 \leq x \leq 8 \end{array}$$

$$7. 1 \leq 3x - 2 < 7$$

$$\begin{array}{r} +2 \quad +2 \quad +2 \\ \hline 3 \leq 3x < 9 \\ \frac{3}{3} \quad \frac{3}{3} \quad \frac{9}{3} \\ \hline 1 \leq x < 3 \end{array}$$

$$8. 4 < 2x - 2 < 10$$

$$\begin{array}{r} +2 \quad +2 \quad +2 \\ \hline 6 < 2x < 12 \\ \frac{6}{2} \quad \frac{6}{2} \quad \frac{12}{2} \\ \hline 3 < x < 6 \end{array}$$

$$9. -1 < -3x + 2 < 14$$

$$\begin{array}{r} -2 \quad -2 \quad -2 \\ \hline -3 < -3x < 12 \\ \frac{-3}{-3} \quad \frac{-3}{-3} \quad \frac{12}{-3} \\ \hline 1 > x > -4 \end{array}$$

switch signs
bec you div.
by a -#!

$$-4 < x < 1$$

$$10. 2x - 1 < -5 \text{ or } 3x + 2 \geq 5$$

$$\begin{array}{r} +1 \quad +1 \quad -2 \quad -2 \\ \hline 2x < -4 \quad 3x \geq 3 \\ \frac{2x}{2} \quad \frac{2x}{2} \quad x \geq 1 \\ \hline x < -2 \end{array}$$

$$x < -2 \text{ OR } x \geq 1$$