

Today's Plan:

Learning Target (standard): I will review for the semester exam.

Students will: Complete practice problems over previous concepts at the boards and study for my exam.

Teacher will: Provide practice problems over previous concepts, check homework problems for accuracy and provide students feedback, describe and provide examples of exam problems.

Assessment: Board work

Differentiation: Students will work at the board, actively engage in practice review concepts with the aid of other students and the teacher.

NAME _____

BELL RINGER

0:03:00

#73

1.) In which quadrant is A(-5, -1)?

Q III



2.) Evaluate $x^2 - 6x + 5$, when $x = -2$.

$$(-2)^2 - 6(-2) + 5 = 21$$

$$4 + 12 + 5$$

3.) Solve $\left(\frac{x}{2} - 8\right)^2 = 12$.

$$x - 16 = \pm\sqrt{24} \quad x = 16 + \sqrt{24} \quad x = 16 - \sqrt{24}$$

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$$.40Q_1 + .40Q_2 + .20(\text{exam}) = \text{semester}$$

$$.4(90) + .4(80) + .2x = 89.5$$

$$36 + 32 + .2x = 89.5$$

$$68 + .2x = 89.5$$

$$.2x = 21.5$$

$$x = 107.5$$

Solve the system of inequalities.

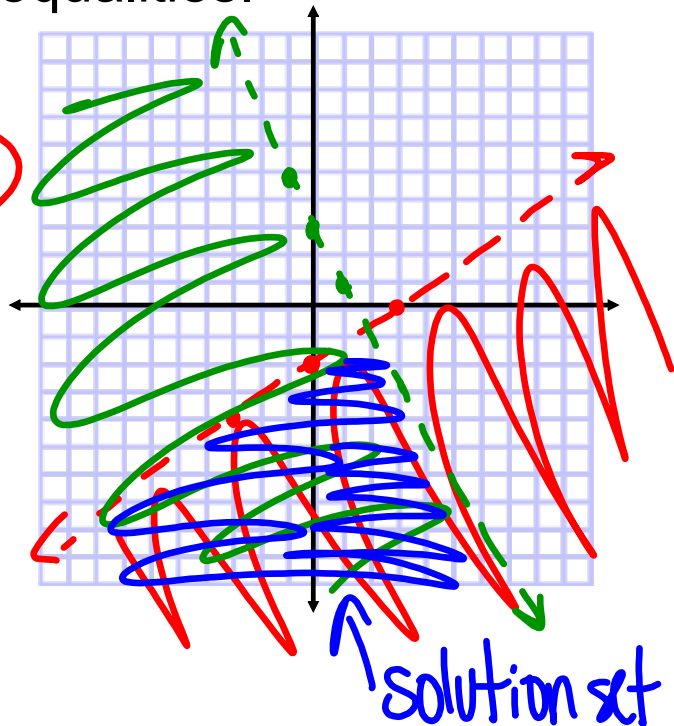
$$\textcircled{1} y < \frac{2}{3}x - 2 \quad m = \frac{2}{3}$$

$$Iy: (0, -2)$$

$$\textcircled{2} y < -2x + 3$$

$$m = -2$$

$$Iy: (0, 3)$$



Solve the system of inequalities.

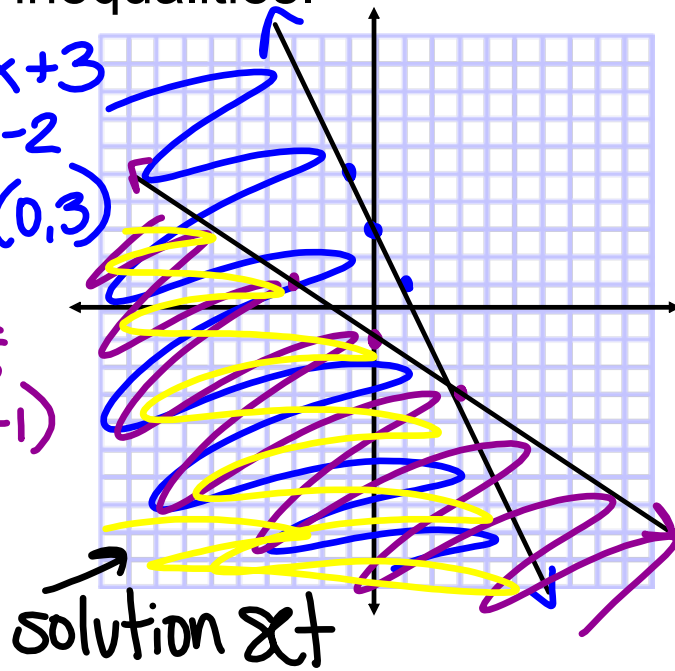
$$\textcircled{1} 2x + y \leq 3 \quad y \leq -2x + 3$$

$$\textcircled{2} 2x + 3y \leq -3 \quad m = -2$$

$$3y \leq -2x - 3 \quad Iy: (0, -1)$$

$$y \leq -\frac{2}{3}x - 1 \quad m = -\frac{2}{3}$$

$$Iy: (0, -1)$$



Write each as an algebraic expression.

1) p squared

$$p^2$$

2) 16 decreased by 12

$$16 - 12$$

Write each as a verbal expression.

3) $9 + n$

- nine increased by a number n
- the sum of nine and a number n

4) $10 - 5$

- ten decreased by five
- the difference of ten and five

Evaluate each expression.

5) $(-2) + (-5) + (-8)$

$$\begin{aligned} & \underline{-2 - 5} - 8 \\ & -7 - 8 \\ & -15 \end{aligned}$$

6) $5 - 7 - 6$

$$\begin{aligned} & \underline{5 - 7} - 6 \\ & -2 - 6 \\ & -8 \end{aligned}$$

7) $(-1) - 8 + 8 + (-8)$

$$\begin{aligned} & \underline{-1 - 8} + 8 - 8 \\ & -9 + 8 \\ & -1 - 8 \\ & -9 \end{aligned}$$

8) $(-8) + (-2) - (-3) + 6$

$$\begin{aligned} & \underline{-8 - 2} + 3 + 6 \\ & -10 + 3 \\ & -7 + 6 \\ & -1 \end{aligned}$$

Solve each equation.

$$3 \left[\frac{7+m}{3} = 6 \right]$$

$$\begin{aligned} 7+m &= 18 \\ -7 & \quad -7 \\ m &= 11 \end{aligned}$$

$$10) -9 = 9 + 9a$$

$$\begin{aligned} -9-9 & \\ -18 &= 9a \\ \frac{-18}{9} &= \frac{9a}{9} \\ a &= -2 \end{aligned}$$

$$11) 8 - 3p = -8p + 8 - 6p$$

$$\begin{aligned} 8-3p &= -14p+8 \\ 8+11p &= 8 \\ 11p &= 0 \\ p &= 0 \end{aligned}$$

$$12) -8(4r-5) = 296$$

$$\begin{aligned} -32r+40 &= 296 \\ -32r &= 256 \\ r &= -8 \end{aligned}$$

$$13) 20 + 7b = -8b - 8(2 - 3b)$$

$$\begin{aligned} 20+7b &= -8b-16+24b \\ 20+7b &= 16b-16 \\ 20 &= 9b-16 \\ 36 &= 9b \\ b &= 4 \end{aligned}$$

$$14) -7(-3x+7) = -10 - 4x$$

$$\begin{aligned} 35x-49 &= -10-4x \\ 39x-49 &= -10 \\ 39x &= 39 \\ x &= 1 \end{aligned}$$