

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.

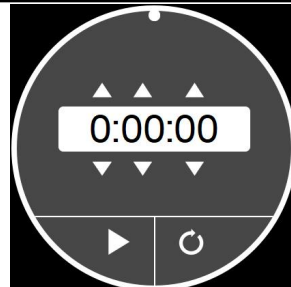
Assessment: Board work

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

NAME _____

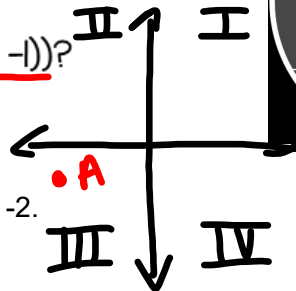
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BELL RINGER



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

Q III



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

$$\begin{aligned} &(-2)^2 - 6(-2) + 5 \\ &4 + 12 + 5 \end{aligned}$$

3.) Solve $\frac{x}{2} - 8 = 12$.

$$x - 16 = 24$$

21

X=40

Semester Grade: www.math4tigers.org

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

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

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

$$79.5$$

$$69.5$$

$$68 + .2x = 89.5$$

$$.2x = 21.5$$

$$x = 107.5$$

Semester Grade:

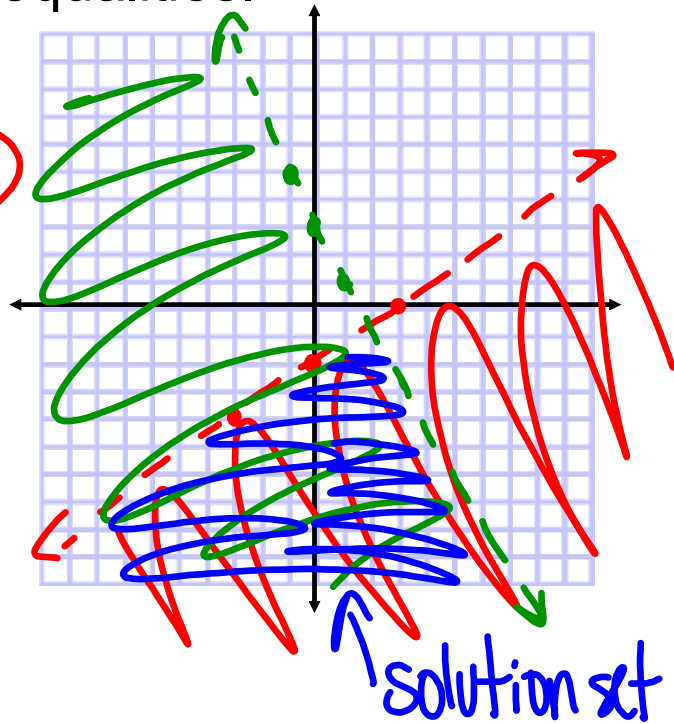
with exam exemption

$$.50Q_1 + .50Q_2 = \text{semester}$$

Solve the system of inequalities.

$$\textcircled{1} y < \frac{2}{3}x - 2 \quad m = \frac{2}{3} \\ \text{Iy: } (0, -2)$$

$$\textcircled{2} y < -2x + 3 \\ m = -2 \\ \text{Iy: } (0, 3)$$

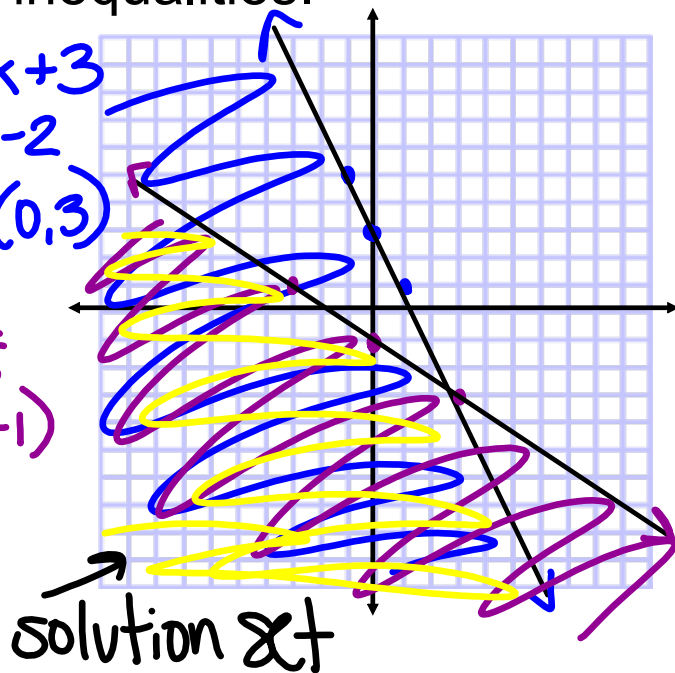


Solve the system of inequalities.

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

$$\textcircled{2} 2x + 3y \leq -3 \quad m = -2 \\ 3y \leq -2x - 3 \quad \text{Iy: } (0, -1)$$

$$y \leq -\frac{2}{3}x - 1 \quad m = -\frac{2}{3} \\ \text{Iy: } (0, -1)$$



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

$$\begin{array}{r} -2-5-8 \\ -7-8 \\ -15 \end{array}$$

6) $5-7-6$

$$\begin{array}{r} -2-6 \\ -8 \end{array}$$

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

$$\begin{array}{r} -1-8+8-8 \\ -9+8 \\ -1-8 \\ -9 \end{array}$$

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

$$\begin{array}{r} -8-2+3+6 \\ -10+3 \\ -7+6 \\ -1 \end{array}$$

-1-

Solve each equation.

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

$$\begin{array}{r} 7+m = 18 \\ -7 \quad -7 \\ m = 11 \end{array}$$

10) $-9 = 9 + 9a$

$$\begin{array}{r} -9-9 \\ -18 = 9a \\ \frac{-18}{9} = \frac{9a}{9} \\ a = -2 \end{array}$$

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

$$\begin{array}{r} 8-3p = -14p+8 \\ 8+11p = 8 \\ 11p = 0 \\ p = 0 \end{array}$$

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

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

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

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

$36 \neq 9$
no solution

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

$$\begin{array}{r} 35x-49 = -10-4x \\ 39x-49 = -10 \\ 39x = 39 \\ x = 1 \\ 39 = 39 \\ \text{identity} \end{array}$$

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