Semester One Review

**December 12, 2023** 

## 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 accuarcy 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.

ANSWER KEY #75

## **BELL RINGER**

1.) Determine whether the relation is a function. Explain. (5,4), (3,2), (-2,2), (4, 5)

Yes it is a function. Every input has one output.

2.) Rewrite 90% as a decimal and fraction in lowest terms. 0.9, 9/10

3.) Evaluate the expression  $\frac{a+b}{2}$  when a=4 and b=-9. -5/2 or -2 1/2

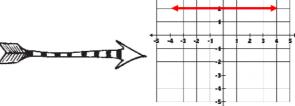
ANSWER KEY #76

## BELL RINGER

I.) Find the y-intercept of the equation x + 3y = 4. (0, 4/3)

2.) Solve the equation 2(x - 1) = -3x + 4. x = 6/5 or 11/5

3.) Graph the line y = 2.



Write the standard form of the equation of the line described.

27) through: 
$$(1, -2)$$
, parallel to  $y = xx - 2$   $M = -2$   
28) through:  $(-3, -5)$ , perp. to  $y = -2$ 

$$(1,-2), m_{y} = -2$$
  
 $Y = mx + b$   
 $-2 = -2(1) + b$   
 $-2 = -2 + b$   
 $b = 0$   
 $Y = -2x$   
 $2x + y = 0$ 

Perpendicular:

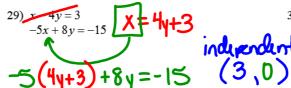
$$M_1 = -\frac{1}{M_2}$$
 $M_1 = -\frac{1}{M_2}$ 
 $M_2 = \frac{9}{4}$ ; (-3.-5)

 $M_1 = -\frac{1}{M_2}$ 
 $M_2 = \frac{9}{4}$ ; (-3.-5)

 $M_3 = \frac{9}{4}$ ; (-3.-5)

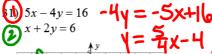
 $M_4 = \frac{9}{4}$ ; (-3.-5)

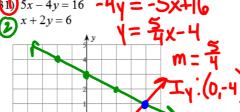
Solve each system by substitution.

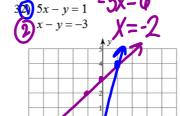


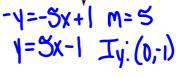
independent: 
$$(-2,5)$$
30)  $3x + 3y = 9$ 
 $-8x - 4y = -4$ 
 $-4y = 8x - 4$ 
 $-4y = -2x + 1$ 

Solve each system by graphing.









independent 
$$Y = -x - 3 m = 1$$
  
(1.4)  $Y = x + 3 Ty!(0,3)$ 

Solve each system by elimination.

33) 
$$14x - 4y = -22$$
 independent  $(-3, -5)$ 

$$\begin{array}{c}
31 (10x + 9y = 11) \\
10 (-9x + 7y = -25)
\end{array}$$

$$\begin{array}{c}
90x + 81y = 99 \\
-90x + 70y = -250
\end{array}$$

$$\begin{array}{c}
151y = -151
\end{array}$$
-6-
$$\begin{array}{c}
y = -1
\end{array}$$
independent

10x-9=11 10x = 20X=2

Solve each system by elimination.

33) 
$$(14x - 4y = -22)$$
  $(7x - 10y = 29) - 2$   $(7x - 10y = 29) - 2$