



3/30/2021

# Integrated Math 1

Extra Practice



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# Rite Of Passage Practice #1

Solve for the variable

1.  $4d = 44$

$$d = 11$$

2.  $6d - 15 = 45$

$$d = 10$$

3.  $5d - 5 = 25 + 3d$

$$d = 15$$

4.  $7(x+2) = -9(5x-7)$

$$x = \frac{49}{52}$$

5.  $\frac{2}{3}x + 7 = \frac{9}{5}$

$$x = -\frac{39}{5}$$

6.  $7(x+2) + 3x = -9(5x-7) - 100$

$$x = -\frac{51}{55}$$

# Rite Of Passage Practice #2

Solve for the variable

1.  $8d = 32$

$$d = 4$$

2.  $4d - 25 = 55$

$$d = 20$$

3.  $5d - 15 = 20 + 3d$

$$d = 17.5$$

4.  $7(x+5) = -6(5x-7)$

$$x = \frac{7}{37}$$

5.  $\frac{3}{2}x + 7 = \frac{9}{5}$

$$x = -\frac{52}{15}$$

6.  $7(x+5) + 3x = -6(5x-7) - 100$

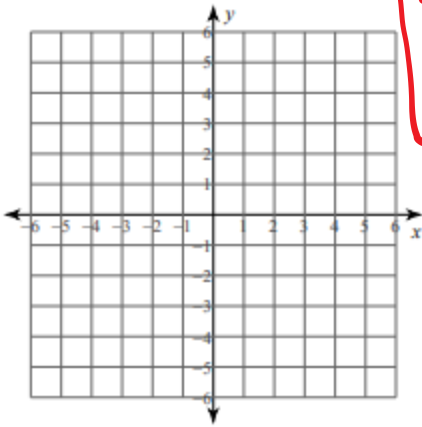
$$x = -\frac{93}{40}$$

# Graphing Lines

Date \_\_\_\_\_ Period \_\_\_\_\_

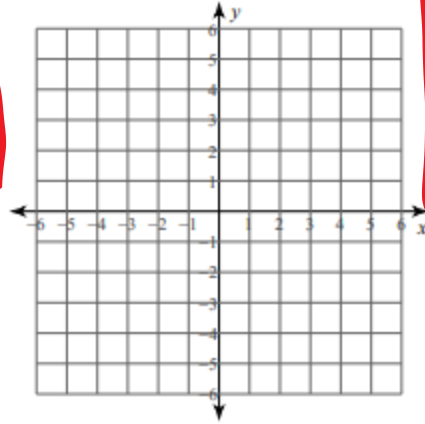
Sketch the graph of each line.

1)  $y = \frac{7}{2}x - 2$



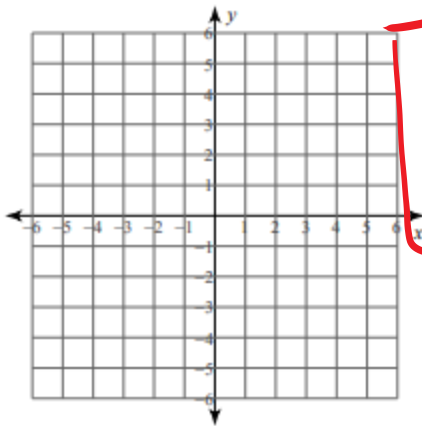
Slope =  $\frac{7}{2}$   
y-int = -2

2)  $y = -6x + 3$



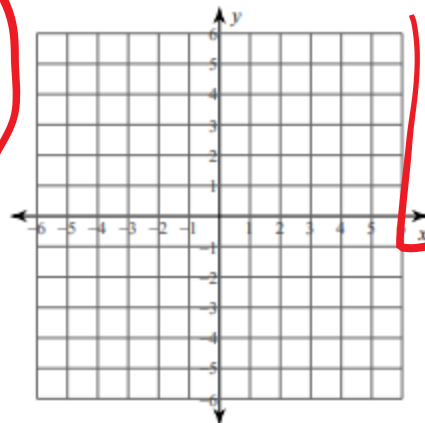
Slope = -6  
y-int = 3

3)  $y = -5$



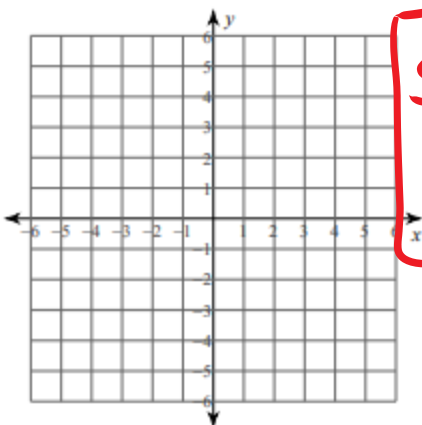
Horizontal  
Line

4)  $y = \frac{6}{5}x + 1$



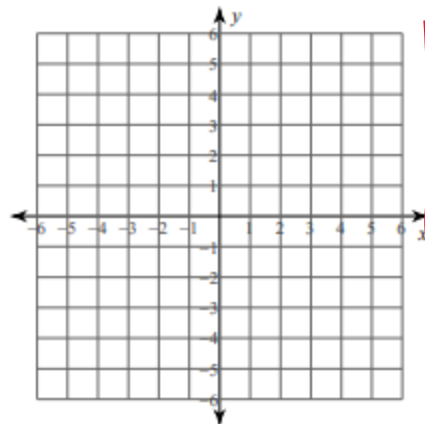
Slope =  $\frac{6}{5}$   
y-int = 1

5)  $y = \frac{1}{4}x + 2$



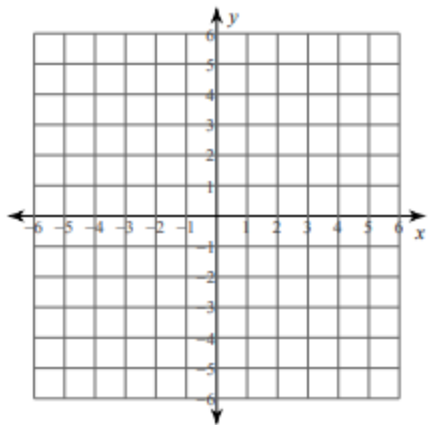
Slope =  $\frac{1}{4}$   
y-int = 2

6)  $x = 5$

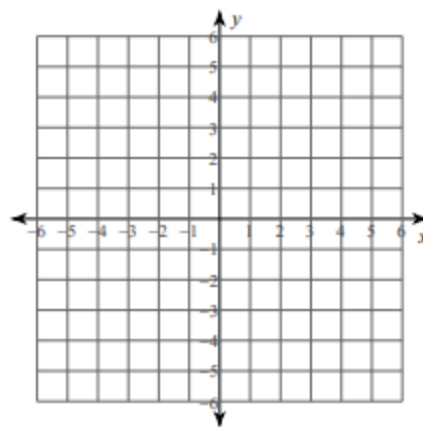


Vertical  
Line

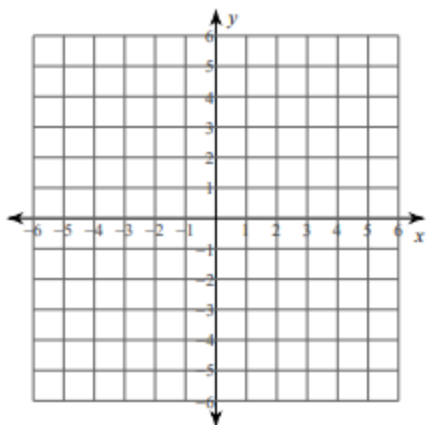
7)  $y = \frac{5}{3}x$



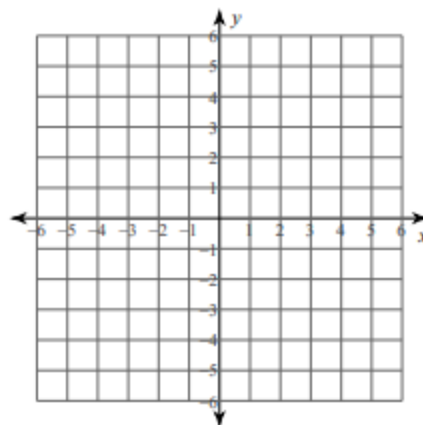
8)  $x = 0$



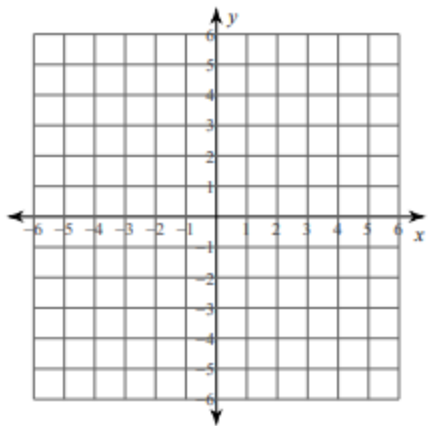
9)  $y = -\frac{1}{3}x + 3$



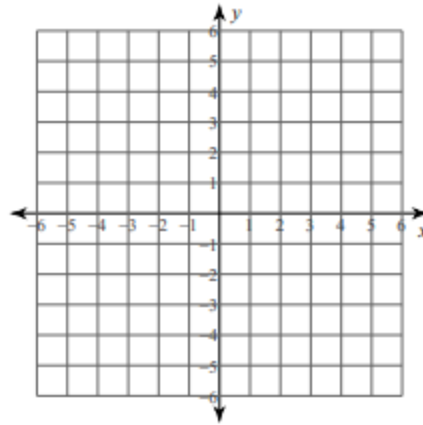
10)  $y = \frac{1}{5}x - 4$



11)  $y = \frac{1}{2}x - 2$



12)  $y = 2x + 5$

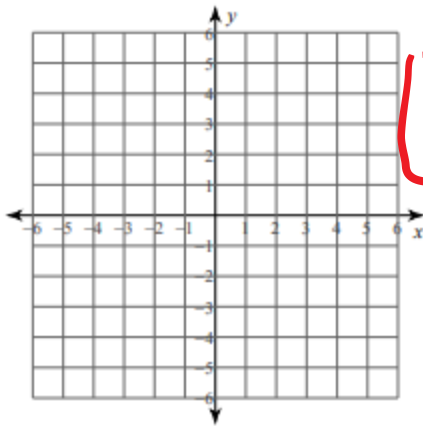


# Graphing Lines

Date \_\_\_\_\_ Period \_\_\_\_\_

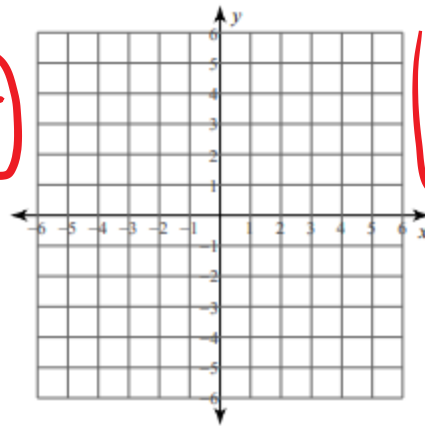
Sketch the graph of each line.

1)  $7x + y = 5$



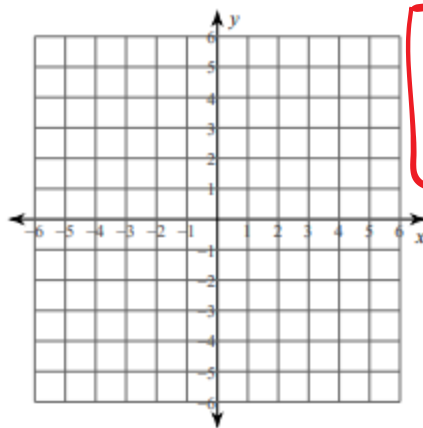
$y = -7x + 5$

2)  $3x + 5y = -5$



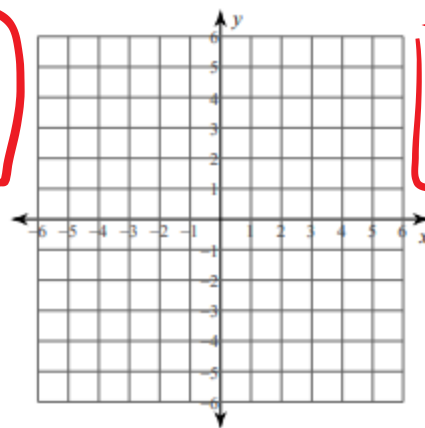
$y = -\frac{3}{5}x - 1$

3)  $y = 4$



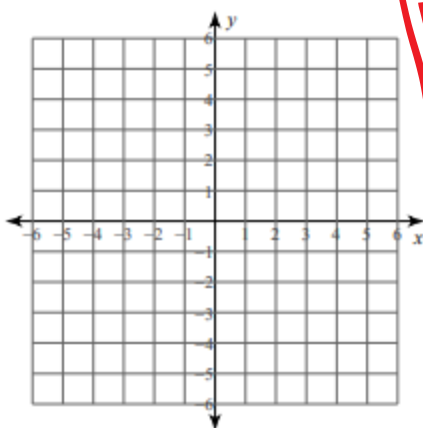
Horizontal Line

4)  $6x + 5y = 20$



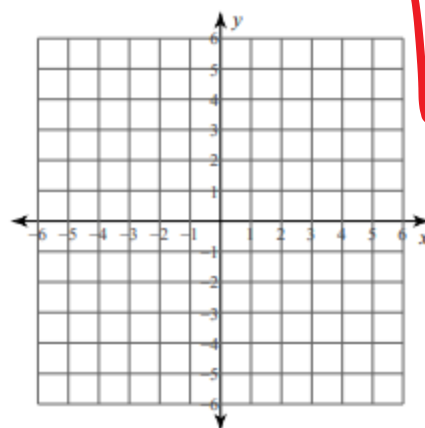
$y = -\frac{6}{5}x + 4$

5)  $x = -3$



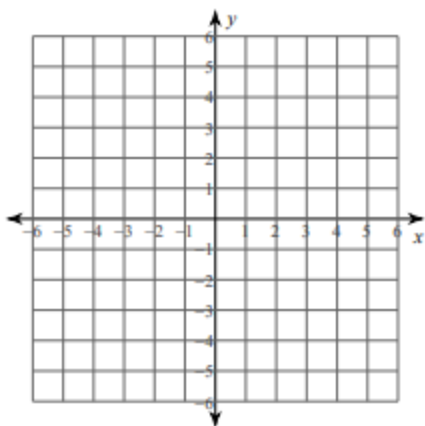
Vertical Line

6)  $2x + y = 4$

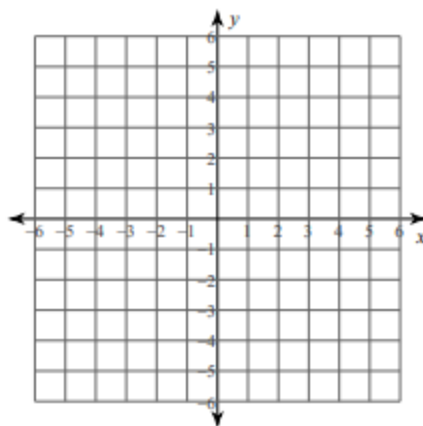


$y = -2x + 4$

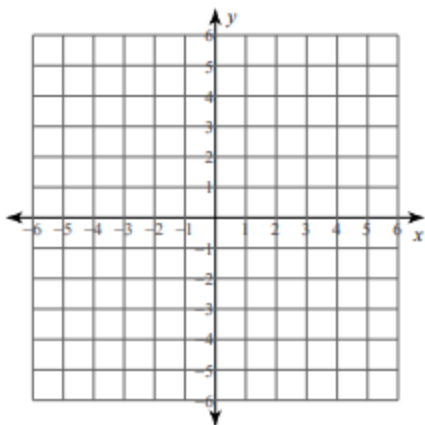
7)  $x + y = 3$



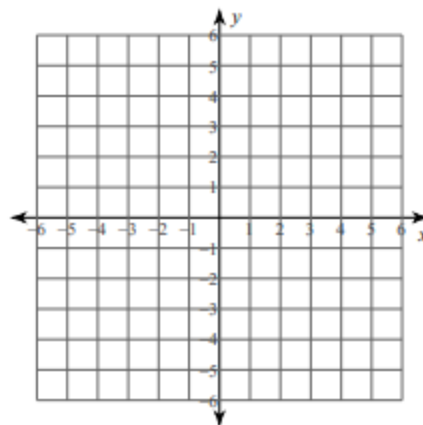
8)  $10x - 3y = 15$



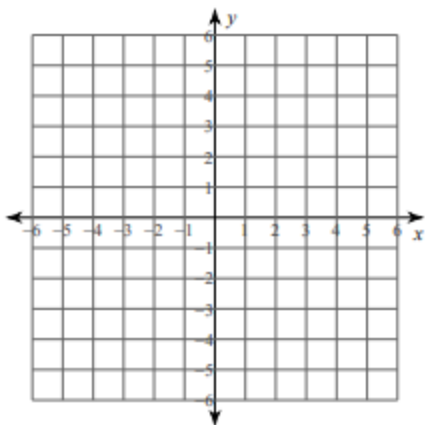
9)  $x - y = 3$



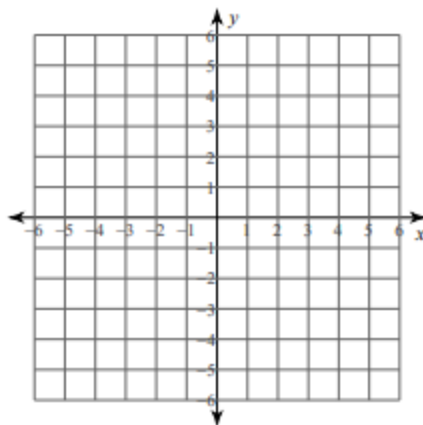
10)  $y = 0$



11)  $x + y = -3$



12)  $x + y = -1$





# Rite of Passage Practice #1 – Systems of Equations

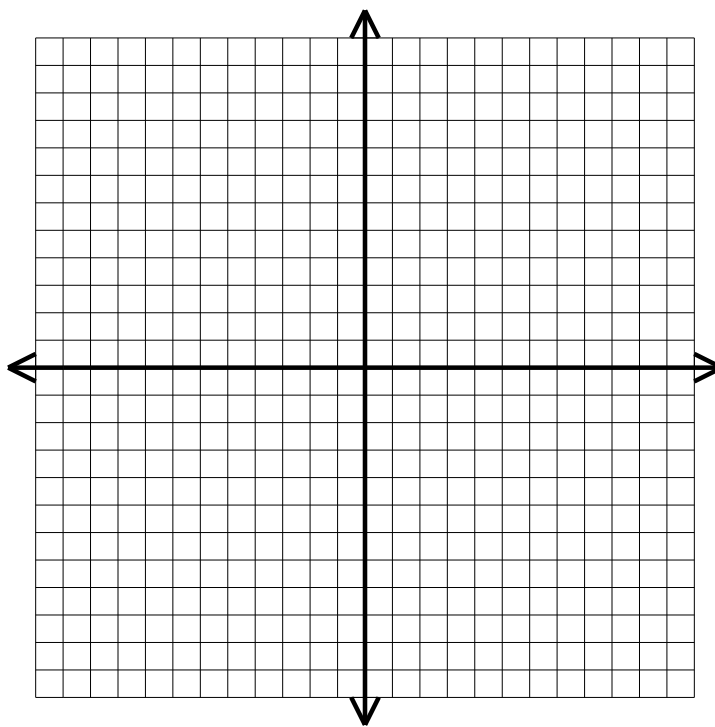
In order to do well in this class, you must show mastery in solving Equations, Graphing Equations, and Solving Systems of Equations. Please solve the following, without error.

Solve the system of equations by graphing

1. 
$$\begin{cases} x - 2y = 6 \\ y = -4x + 6 \end{cases}$$

Solution:

$(2, -2)$   
or  
 $x = 2 \quad y = -2$



Solve the system of equations by Substitution

2. 
$$\begin{cases} x = y + 5 \\ 2x - 5y = 40 \end{cases}$$

$(-5, -10)$  or  
 $x = -5 \quad y = -10$

Solve the system of equations by Elimination

3. 
$$\begin{cases} x - 6y = -4 \\ -2x + y = -3 \end{cases}$$

$(2, 1)$  or  
 $x = 2 \quad y = 1$

# Rite of Passage Practice #2 – Systems of Equations

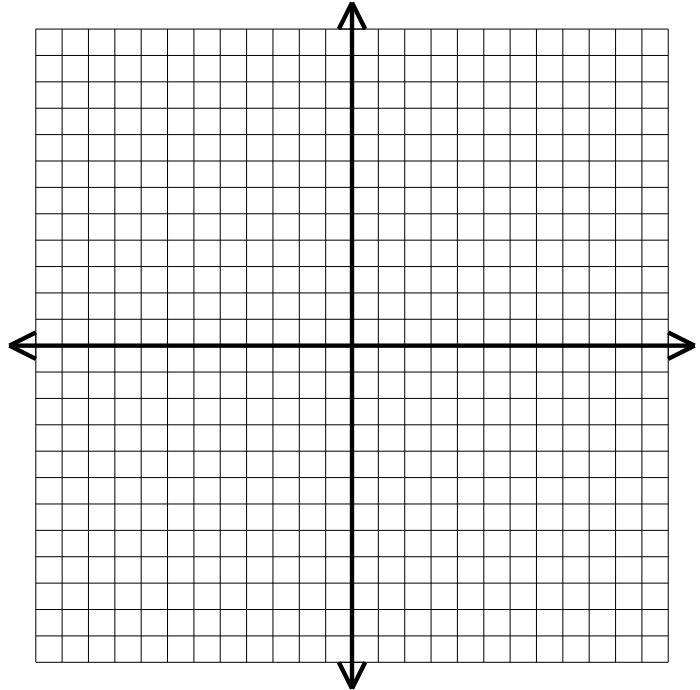
In order to do well in this class, you must show mastery in solving Equations, Graphing Equations, and Solving Systems of Equations. Please solve the following, without error.

Solve the system of equations by graphing

1. 
$$\begin{cases} -3x + y = -3 \\ y = -2x + 7 \end{cases}$$

Solution:

$(2, 3)$  or  
 $x=2 \quad y=3$



Solve the system of equations by Substitution

2. 
$$\begin{cases} y = x - 5 \\ y = \frac{2}{5}x - 5 \end{cases}$$

$(0, -5)$  or  
 $x=0 \quad y=-5$

Solve the system of equations by Elimination

3. 
$$\begin{cases} -4x + 9y = 9 \\ x - 3y = -6 \end{cases}$$

$(9, 5)$  or  
 $x=9 \quad y=5$