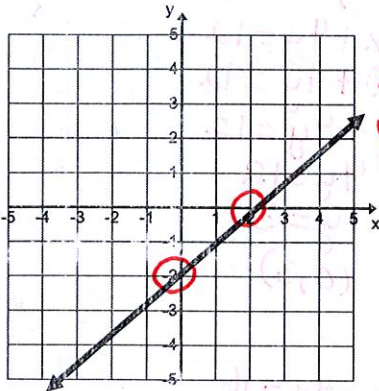


Name: Key  
Date: 11/30 Period:     

### X and Y Intercepts Worksheet (Day 3)

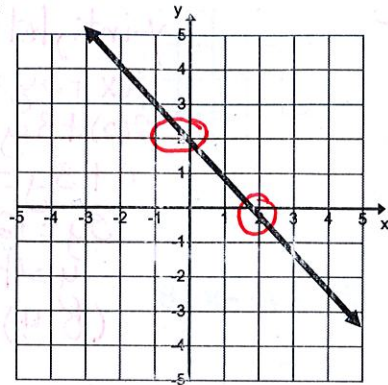
Identify the x and y intercepts and write as an ordered pair

1.



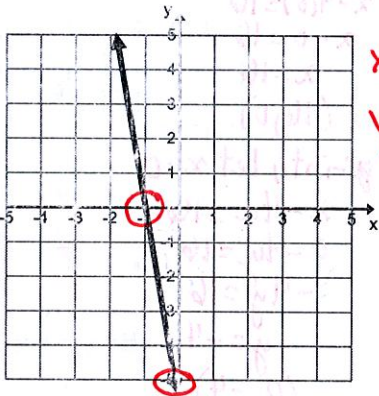
x-int. (2,0)  
y-int. (0,-2)

2.



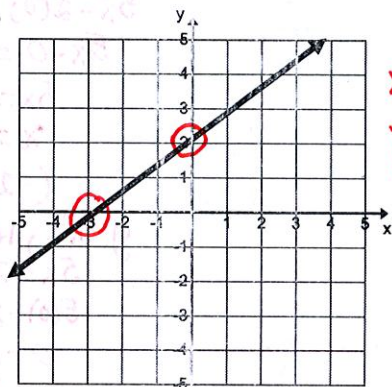
x-int. (2,0)  
y-int. (0,2)

3.



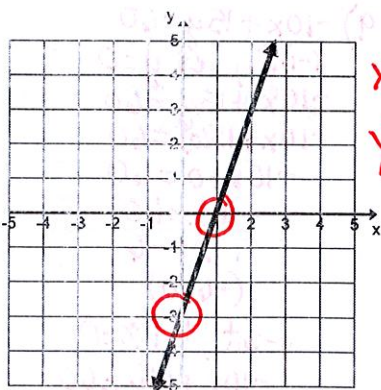
x-int. (-1,0)  
y-int. (0,-5)

4.



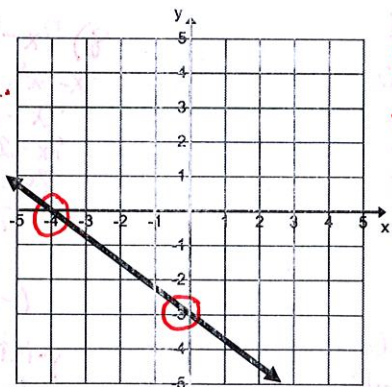
x-int. (-3,0)  
y-int. (0,2)

5.



x-int. (1,0)  
y-int. (0,-3)

6.



x-int. (-4,0)  
y-int. (0,-3)

$$1) x + y = 8$$

x-int., let  $y = 0$

$$x + y = 8$$

$$x + 0 = 8$$

$$x = 8$$

$$(8, 0)$$

$$x + y = 8$$

y-int., let  $x = 0$

$$x + y = 8$$

$$0 + y = 8$$

$$y = 8$$

$$(0, 8)$$

$$2) 2x + 3y = 12$$

x-int., let  $y = 0$

$$2x + 3y = 12$$

$$2x + 3(0) = 12$$

$$2x + 0 = 12$$

$$2x = 12$$

$$x = 6$$

$$(6, 0)$$

y-int., let  $x = 0$

$$2x + 3y = 12$$

$$2(0) + 3y = 12$$

$$0 + 3y = 12$$

$$3y = 12$$

$$y = 4$$

$$(0, 4)$$

$$3) 6x + 4y = 12$$

x-int., let  $y = 0$

$$6x + 4y = 12$$

$$6x + 4(0) = 12$$

$$6x + 0 = 12$$

$$6x = 12$$

$$x = 2$$

$$(2, 0)$$

y-int., let  $x = 0$

$$6x + 4y = 12$$

$$6(0) + 4y = 12$$

$$0 + 4y = 12$$

$$4y = 12$$

$$y = 3$$

$$(0, 3)$$

$$4) 4x + y = -8$$

x-int., let  $y = 0$

$$4x + y = -8$$

$$4x + 0 = -8$$

$$4x = -8$$

$$x = -2$$

$$(-2, 0)$$

y-int., let  $x = 0$

$$4x + y = -8$$

$$4(0) + y = -8$$

$$0 + y = -8$$

$$y = -8$$

$$(0, -8)$$

$$5) 5x - 2y = -10$$

x-int., let  $y = 0$

$$5x - 2y = -10$$

$$5x - 2(0) = -10$$

$$5x - 0 = -10$$

$$5x = -10$$

$$x = -2$$

$$(-2, 0)$$

y-int., let  $x = 0$

$$5x - 2y = -10$$

$$5(0) - 2y = -10$$

$$0 - 2y = -10$$

$$-2y = -10$$

$$y = 5$$

$$(0, 5)$$

$$6) x - 4y = 16$$

x-int., let  $y = 0$

$$x - 4y = 16$$

$$x - 4(0) = 16$$

$$x - 0 = 16$$

$$x = 16$$

$$(16, 0)$$

y-int., let  $x = 0$

$$x - 4y = 16$$

$$0 - 4y = 16$$

$$-4y = 16$$

$$y = -4$$

$$(0, -4)$$

$$7) -3x - 9y = -18$$

x-int., let  $y = 0$

$$-3x - 9y = -18$$

$$-3x - 9(0) = -18$$

$$-3x - 0 = -18$$

$$-3x = -18$$

$$x = 6$$

$$(6, 0)$$

y-int., let  $x = 0$

$$-3x - 9y = -18$$

$$-3(0) - 9y = -18$$

$$0 - 9y = -18$$

$$-9y = -18$$

$$y = 2$$

$$(0, 2)$$

$$8) 7x - 2y = -14$$

x-int., let  $y = 0$

$$7x - 2y = -14$$

$$7x - 2(0) = -14$$

$$7x - 0 = -14$$

$$7x = -14$$

$$x = -2$$

$$(-2, 0)$$

y-int., let  $x = 0$

$$7x - 2y = -14$$

$$7(0) - 2y = -14$$

$$0 - 2y = -14$$

$$-2y = -14$$

$$y = 7$$

$$(0, 7)$$

$$9) -10x + 15y = 60$$

x-int., let  $y = 0$

$$-10x + 15y = 60$$

$$-10x + 15(0) = 60$$

$$-10x + 0 = 60$$

$$-10x = 60$$

$$x = -6$$

$$(-6, 0)$$

y-int., let  $x = 0$

$$-10x + 15y = 60$$

$$-10(0) + 15y = 60$$

$$0 + 15y = 60$$

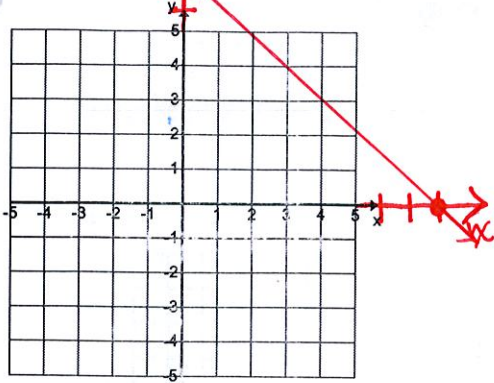
$$15y = 60$$

$$y = 4$$

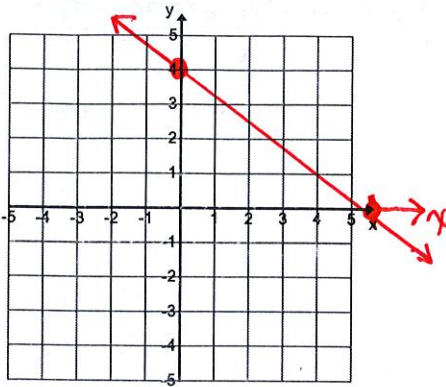
$$(0, 4)$$

Find and graph the intercepts of the following linear equations:

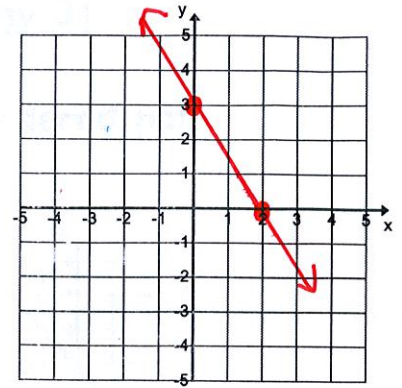
1.  $x + y = 8$



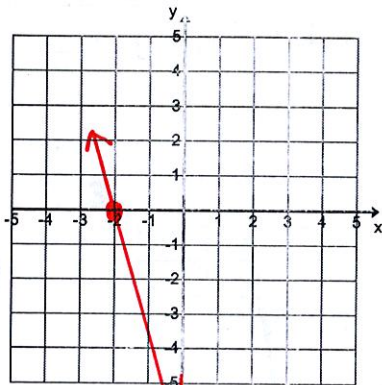
2.  $2x + 3y = 12$



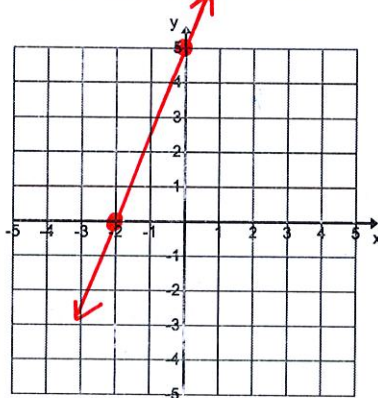
3.  $6x + 4y = 12$



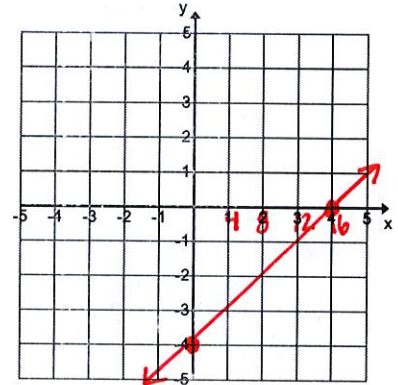
4.  $4x + y = -8$



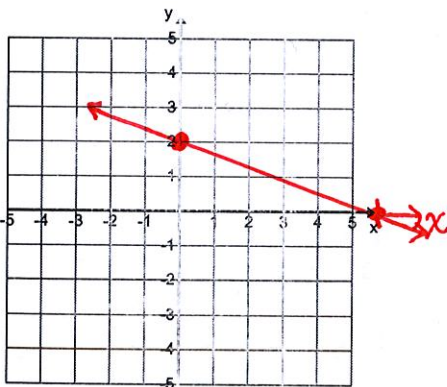
5.  $5x - 2y = -10$



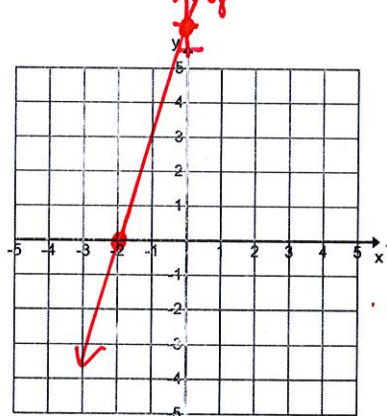
6.  $x - 4y = 16$



7.  $-3x - 9y = -18$



8.  $7x - 2y = -14$



9.  $-10x + 15y = 60$

