

## Ridgeway High School Summer Assignment 2015

**Evaluate each expression. You Must Show All Of Your Work To Receive Credit!**

1)  $3 - 1 - 6 + (-3)^2$

2)  $1^2 \cdot (1 - 5)^2$

3)  $4 - -6 + 4 + -4 + 5$

4)  $-15 \div (4 + 5 + 3 \cdot -4)$

5)  $-2 \div -2 - (-5 - 5^2)$

6)  $3(-2 + 5)^2$

7)  $-2 - (4 + 1^2)$

8)  $(-1 - 1)^2 - -1$

9)  $-3 + 2 \times 12 \div 6$

10)  $(-4 - 6) \div 5 - 2$

11)  $x - (x - y)$ ; use  $x = -2$ , and  $y = 6$

12)  $z + y + z$ ; use  $y = -3$ , and  $z = -1$

13)  $r(r - p)$ ; use  $p = 4$ , and  $r = -2$

14)  $5 - (p - q)$ ; use  $p = 6$ , and  $q = 2$

15)  $k - j - j$ ; use  $j = 6$ , and  $k = -4$

**Simplify each expression. You Must Show All Of Your Work To Receive Credit!**

16)  $-4n - 10n$

17)  $10m - 2m$

18)  $r + 10 - 7r$

19)  $4x - 10x$

20)  $-7x - 2 + 1 + 7x$

21)  $-5(5x + 4)$

$$22) -8(-3n + 5)$$

$$23) 4(1 + 9a)$$

$$24) 2(1 + 2b)$$

$$25) 6(-9n + 9)$$

$$26) 5 + 8(5n + 7)$$

$$27) 9r + 7(-7r - 4)$$

$$28) 6 - 2(9x - 5)$$

$$29) 8 - (9 + 10n)$$

$$30) -5(x + 4) - 2$$

$$31) -3(8m - 8) + 9(1 + 2m)$$

$$32) -6(10v - 3) - 4(8v - 3)$$

$$33) -2(1 + 2r) + 7(9r - 7)$$

$$34) -5(-1 - 3v) - 6(1 - 2v)$$

$$35) 6(6 + 6x) + 6(5x + 6)$$

**Name the set or sets to which each number belongs. (Rational, Integers, Whole, Natural, Irrational)**

$$36) \frac{14}{2}$$

$$37) \sqrt{\frac{75}{3}}$$

$$38) -4$$

$$39) \sqrt{89}$$

$$40) 0$$

**Solve each equation. You Must Show All Of Your Work To Receive Credit!**

$$41) -8 = \frac{n}{8} - 9$$

$$42) \frac{-9 + n}{5} = -5$$

$$43) -7(3 + n) = 63$$

$$44) -4 = 1 + \frac{n}{4}$$

$$45) -8 + \frac{v}{9} = -10$$

$$46) -6(-4p - 5) + 8p = 126$$

$$47) -185 = 5(8n - 5)$$

$$48) 4(2x - 5) = -84$$

$$49) -91 = -7(6 - b)$$

$$50) 296 = -8(6n - 7)$$

$$51) 15 = a + 5 + a$$

$$52) -11 = -6k - 5k$$

$$53) -12 = 2r - 4r$$

$$54) 2b - 4b = 8$$

$$55) -6r - 2r = -16$$

$$56) 4 - 8r - r = -3 - 8r$$

$$57) 8 + b + 2 - 5b = 2 - 3b$$

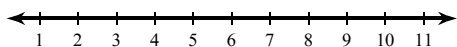
$$58) -4n + 2n - 9 = -3n - 2$$

$$59) 7r + 4r = -12 - r$$

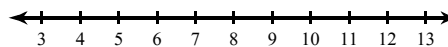
$$60) 6p + 9 = 1 + 3p + 4p$$

**Solve each inequality and graph its solution. You Must Show All Of Your Work To Receive Credit!**

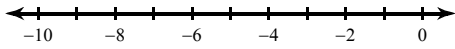
$$61) 7m - m > 18$$



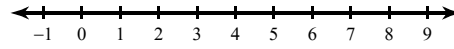
$$62) -23 \geq 1 - 5m + 6$$



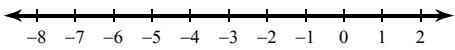
63)  $-2x - x > 15$



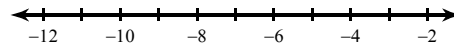
64)  $-4 \leq -5n + n$



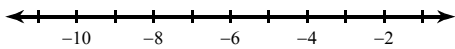
65)  $-7x + 1 - 4x < 12$



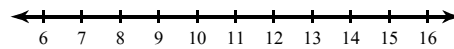
66)  $-6(7x + 3) \geq 234$



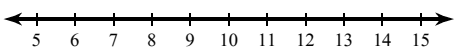
67)  $8(r - 3) < -88$



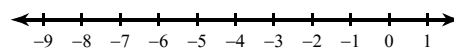
68)  $88 > 8(x + 3)$



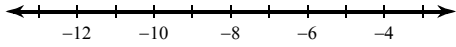
69)  $6(4a + 5) + 1 \geq 223$



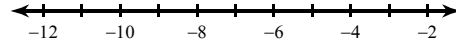
70)  $196 < 5k - 8(1 + 7k)$



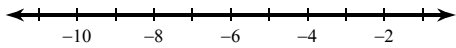
71)  $m - 1 < 12 + 1 + 4m + 4$



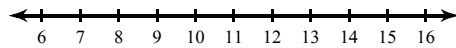
72)  $-m - 2m - 3 \leq -4m - 7 - 3$



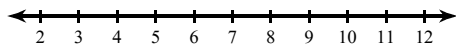
73)  $-8n - 8 \leq 4 - 6n$



74)  $4n + 2n > 4n + 16$



75)  $-10 + 2n \leq n - 3$



**Find the slope of the line through each pair of points. You Must Show All Of Your Work To Receive Credit!**

76)  $(-11, -14), (1, 10)$

77)  $(17, -11), (9, -7)$



$$78) (9, 6), (-1, 6)$$

$$79) (-19, 20), (12, -1)$$

**Find the slope of each line.**

$$80) y = -\frac{7}{3}x + 2$$

$$81) y = 2x + 1$$

$$82) y = \frac{8}{5}x - 3$$

$$83) y = -\frac{7}{3}x + 4$$

$$84) y = x + 1$$

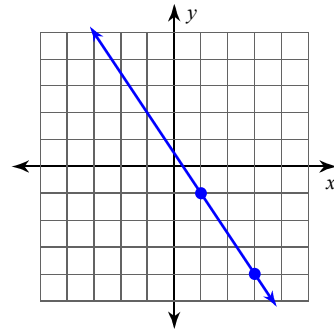
$$85) 3x + 5y = -5$$

$$86) 5x + 3y = -12$$

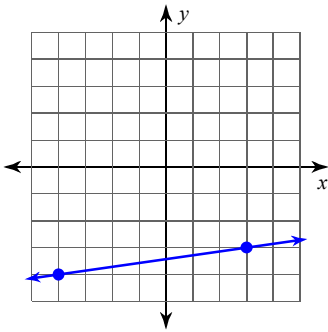
$$87) 2x + 3y = -3$$

88)  $4x + y = -1$

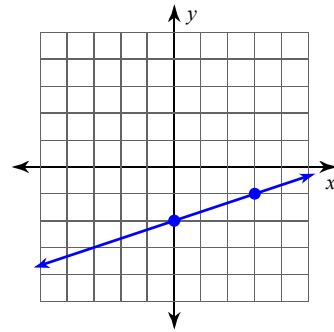
89)



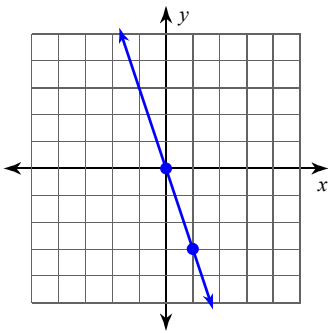
90)



91)

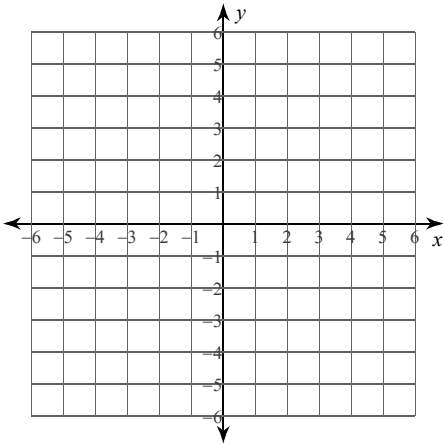


92)

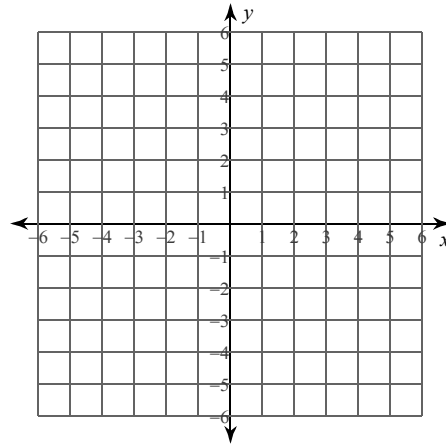


Sketch the graph of each line.

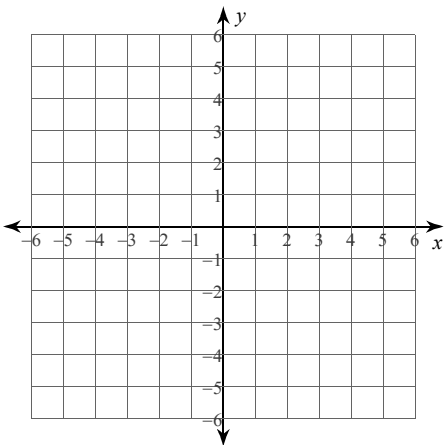
93)  $y = \frac{9}{4}x - 5$



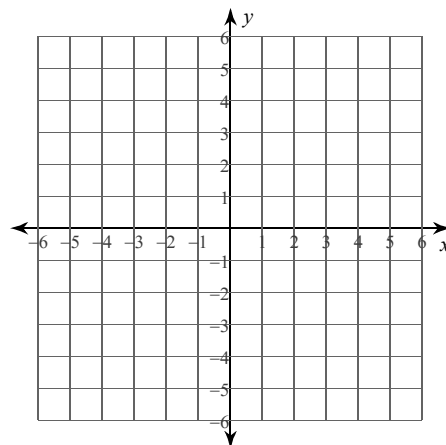
94)  $y = \frac{3}{4}x - 4$



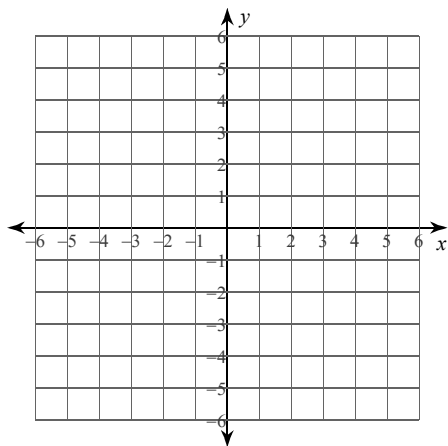
95)  $y = 2x - 5$



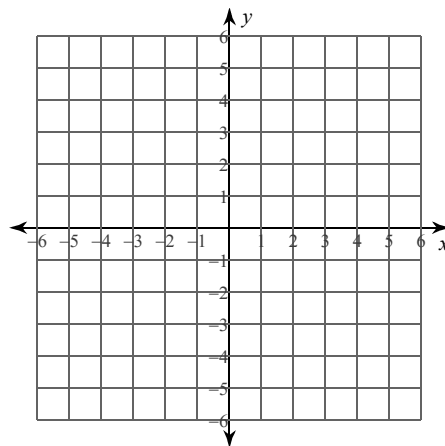
96)  $y = \frac{1}{4}x - 1$



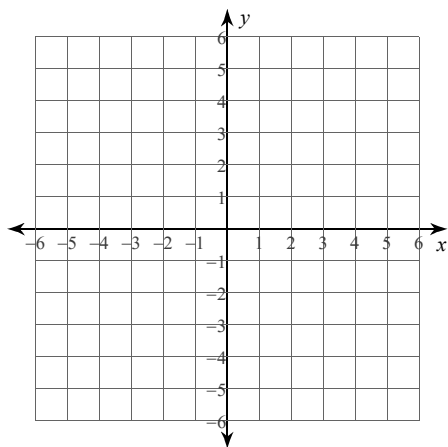
97)  $x + 5y = -25$



98)  $9x + 4y = 16$



99)  $4x + y = -1$



100)  $x - 3y = -3$

