

**LINDALE HIGH SCHOOL  
ALGEBRA 1 HONORS**



**SUMMER PACKET  
2024**

# **SHOW ALL WORK!!**

**Answer all of the following questions  
and review the topics you should  
know entering Algebra 1 Honors.**

**This packet will be due the first day  
of school.**


**You will have a TEST over this packet  
on the second day of school.**

**Study and Be Prepared!!**

**If you have any questions, please feel  
free to email me.**

**Thompsonbb@liskeagles.net**

## Algebra 1 Honors- Summer Assignment

 Simplify each expression.

1)  $-2m - 3m$

2)  $8x + 6x$

3)  $r - 7 - 2r - 6$

4)  $p + 8 + 6$

5)  $4(1 - 6x) - 2x$

6)  $-7(-6 + m) - 6m$

7)  $-7(1 + 2a) - 6a$

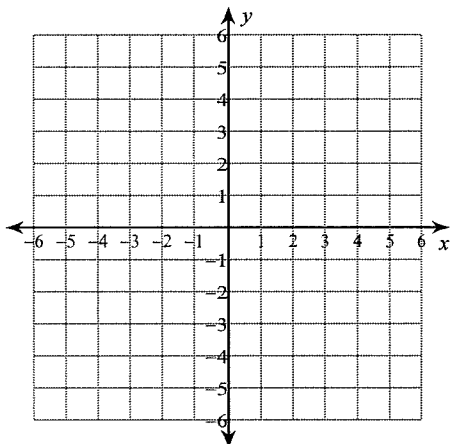
8)  $-8 - 5(a - 5)$

9)  $7(-8r + 3) - 8(1 + 8r)$

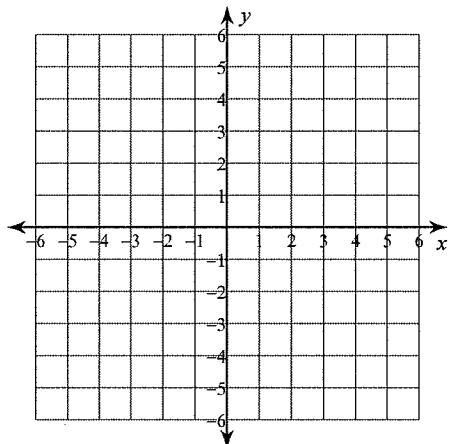
10)  $-(1 - 3p) + 7(1 - 2p)$

Sketch the graph of each line.

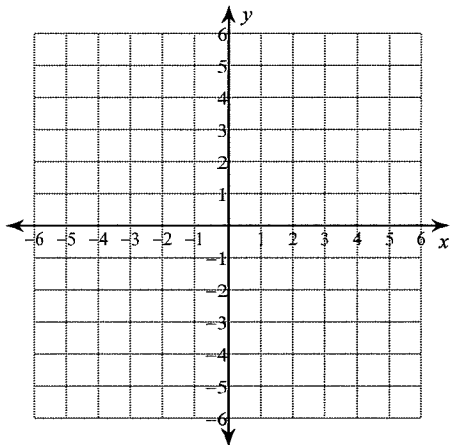
11)  $x$ -intercept = 3,  $y$ -intercept = -2



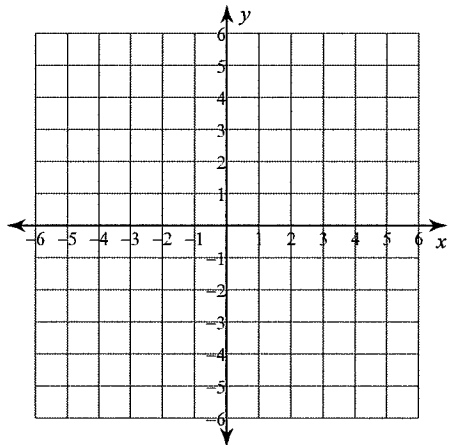
12)  $x$ -intercept = -5,  $y$ -intercept = 2



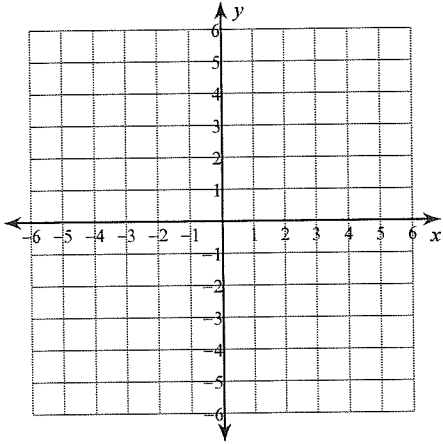
13)  $x$ -intercept = 2,  $y$ -intercept = 4



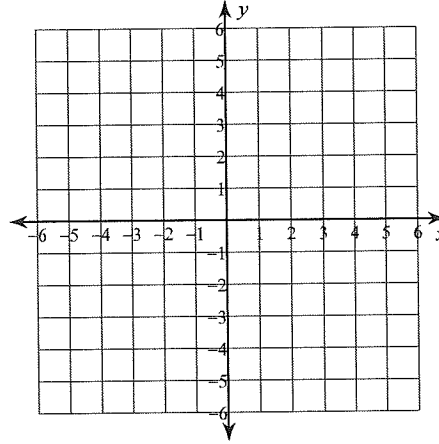
14)  $x$ -intercept = 3,  $y$ -intercept = -5



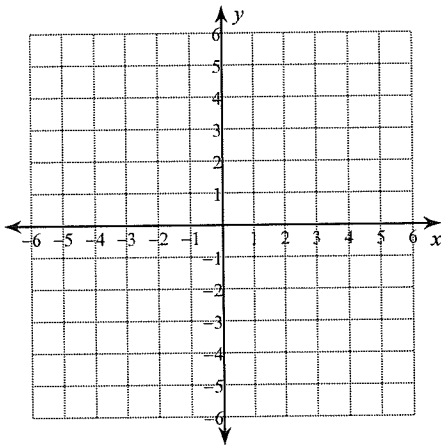
15)  $y = -\frac{2}{3}x + 1$



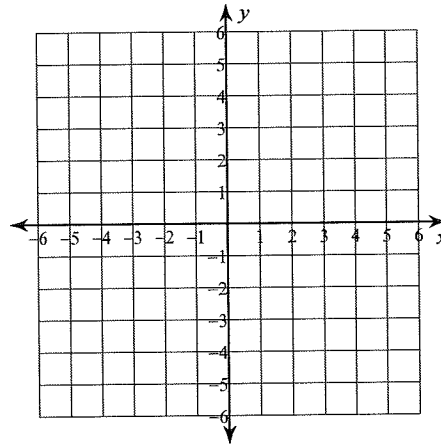
16)  $y = -\frac{1}{4}x$



17)  $y = -\frac{3}{5}x + 5$



18)  $y = 2x - 4$



**Write the slope-intercept form of the equation of each line given the slope and y-intercept.**

19) Slope =  $\frac{9}{2}$ , y-intercept =  $-4$

20) Slope =  $1$ , y-intercept =  $-5$

21) Slope =  $\frac{2}{3}$ , y-intercept =  $3$

22) Slope =  $\frac{10}{3}$ , y-intercept =  $-5$

**Write the slope-intercept form of the equation of the line through the given point with the given slope.**

23) through:  $(3, 5)$ , slope =  $\frac{1}{3}$

24) through:  $(3, -4)$ , slope =  $-4$

25) through:  $(-1, 3)$ , slope =  $-2$

26) through:  $(0, 2)$ , slope =  $\frac{2}{3}$

**Questions 41-52. Solve each equation.& CHECK!**

27)  $\frac{v}{79} = -4$

28)  $71 = -21 + m$

29)  $x + -61 = -7$

30)  $\frac{k}{28} = 30$

$$31) -14 = -2p - 5p$$

$$32) -4 = k + 3 - 2$$

$$33) -4 = 2x + 5 - 1$$

$$34) 6 + 4n - n = 0$$

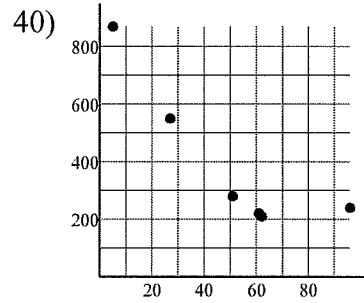
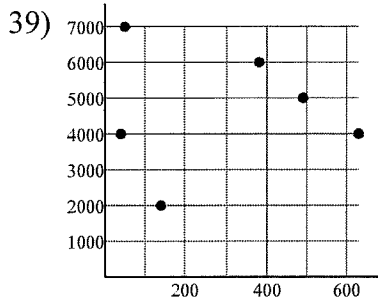
$$35) 5n - 26 = -3(2n + 5)$$

$$36) -30 - x = 8(6 - 5x)$$

$$37) -5 - 7n = 6(1 - 3n)$$

$$38) 2(7r - 3) - 3r = 6 + 8r$$

State if there appears to be a positive correlation, negative correlation, or no correlation.



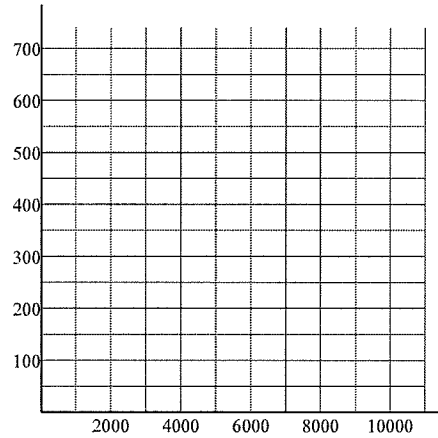
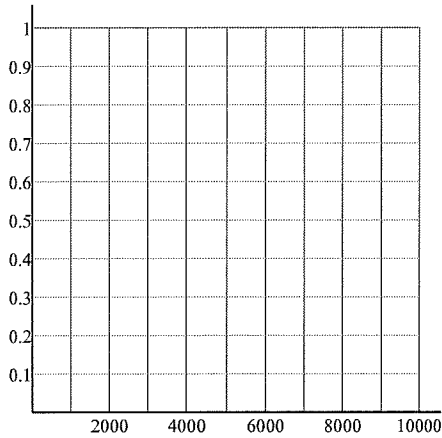
Construct a scatter plot. State if there appears to be a positive correlation, negative correlation, or no correlation.

41)

X	Y	X	Y
1,000	0.2	5,000	0.8
1,000	0.2	6,000	0.8
3,000	0.5	7,000	0.8
4,000	0.7	9,000	0.8
4,000	0.7	10,000	0.8

42)

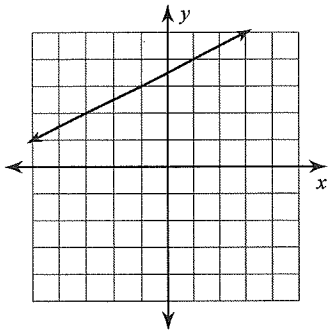
X	Y	X	Y
1,000	730	4,600	600
1,600	90	4,800	740
2,300	430	5,100	60
3,900	610	5,700	590
4,400	720	11,000	670



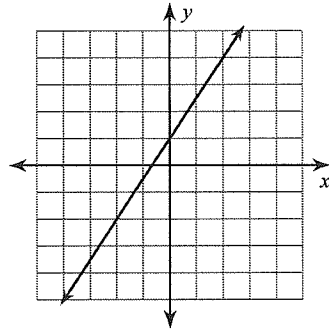


Questions 43-50. Find the Slope.

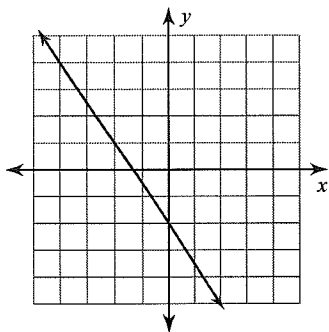
43)



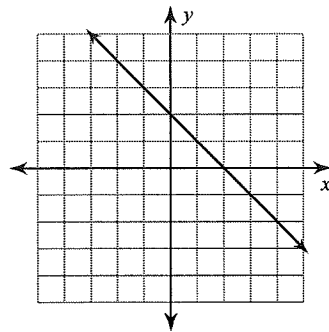
44)



45)



46)



47)  $(-7, 16), (4, -4)$

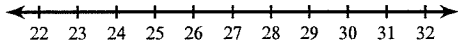
48)  $(-5, -20), (-12, -10)$

49)  $(19, 7), (-1, -9)$

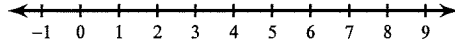
50)  $(14, 6), (-7, -14)$

Solve each inequality and graph its solution.

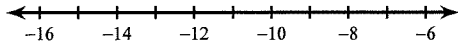
51)  $33 > 6 + a$



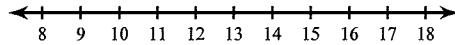
52)  $-3 - x \leq -4$



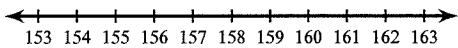
53)  $-3 \geq 5 + v$



54)  $204 < 17n$



55)  $\frac{x}{10} > 16$



Write the slope-intercept form of the equation of each line.

56)  $7x + 4y = -28$

57)  $13x - 8y = -40$

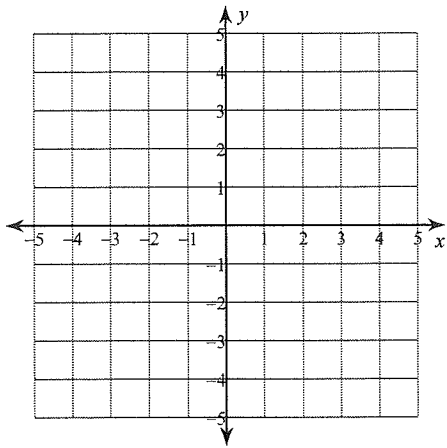
58)  $x + y = -3$

59)  $7x - y = -8$

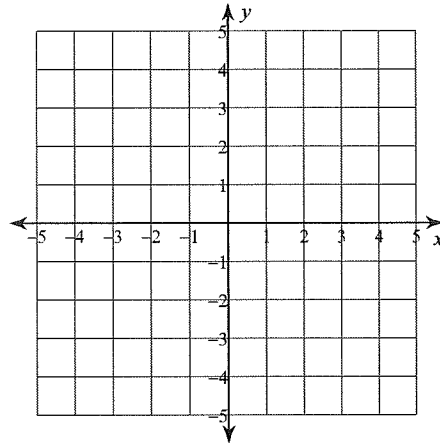
60)  $3x + y = 5$

Solve each system by graphing.

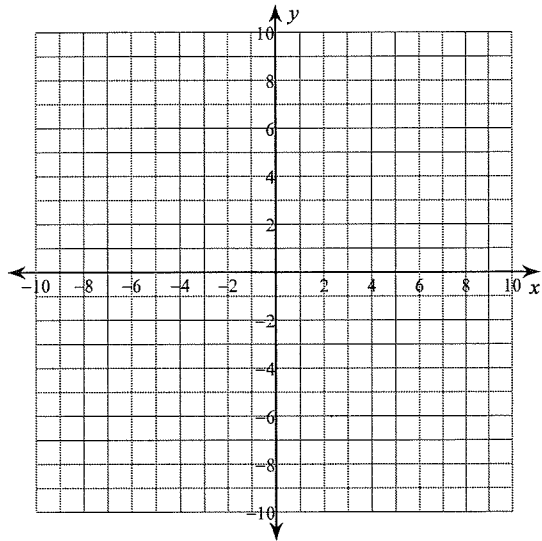
$$61) \begin{cases} y = \frac{7}{4}x + 3 \\ x = -4 \end{cases}$$



$$62) \begin{cases} y = \frac{1}{3}x + 1 \\ y = -\frac{2}{3}x + 4 \end{cases}$$



$$63) \begin{cases} -x = 3y + 12 \\ x = 24 + 3y \end{cases}$$



$$64) \begin{cases} 7y = -56 - 3x \\ -22x = 84 - 14y \end{cases}$$

