LINDALE HIGH SCHOOL

ALGEBRA 1 HONORS

SUMMER PACKET

2025

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@lisdeagles.net

Due Day 1 of School

Name_____

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

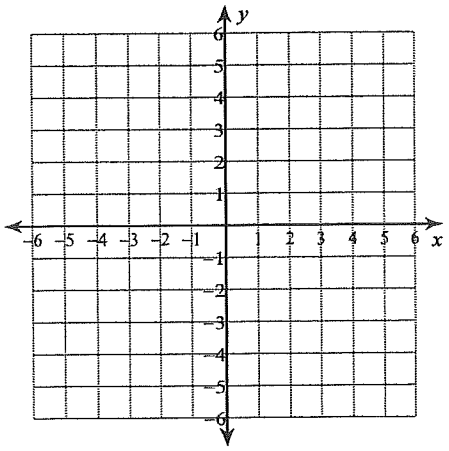
8) $-8 - 5(a - 5)$

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

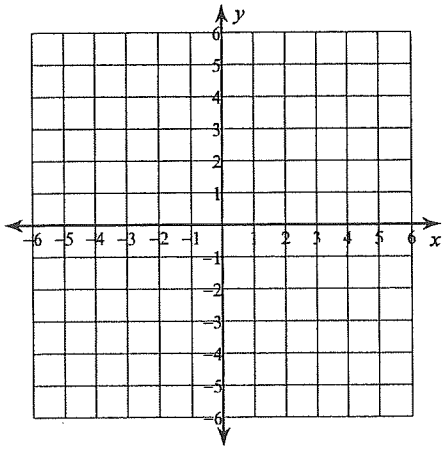
10) $-(1 - 3p) + 7(1 - 2p)$

Sketch the graph of each line.

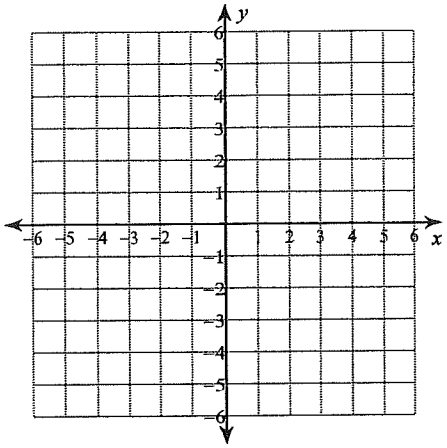
11) x-intercept = 3, y-intercept = –2



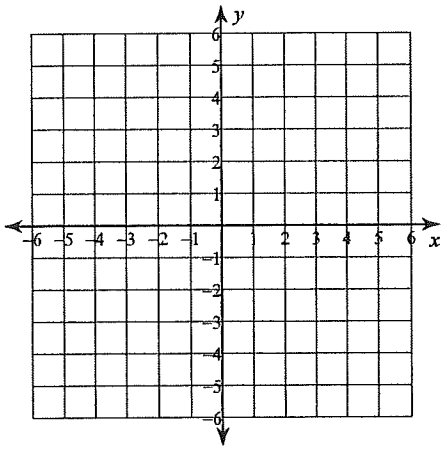
12) x-intercept = –5, y-intercept = 2



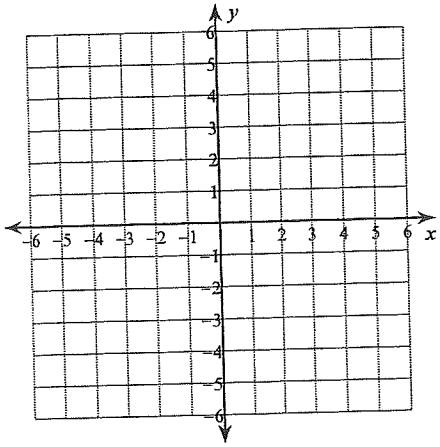
13) x-intercept = 2, y-intercept = 4



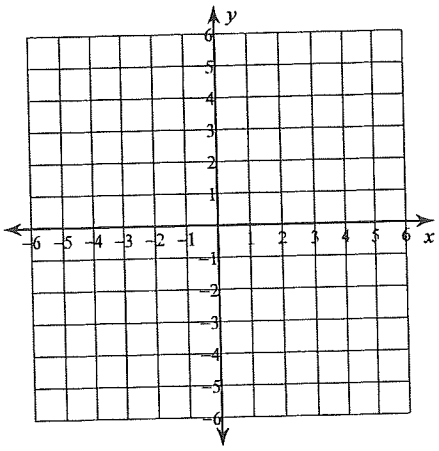
14) x-intercept = 3, y-intercept = –5



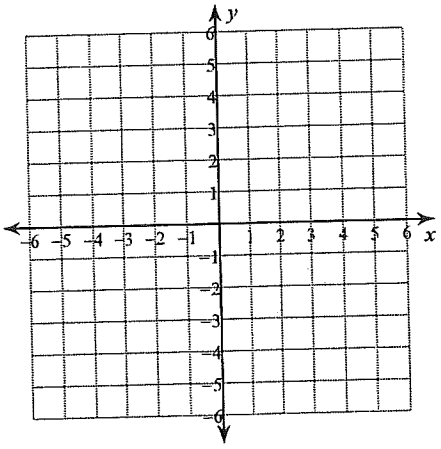
15) $y = -\frac{2}{3}x + 1$



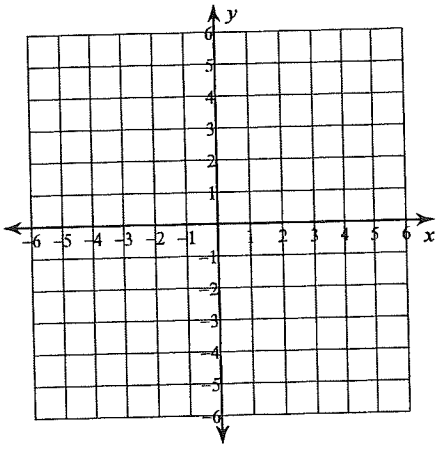
16) $y = -\frac{1}{4}x$



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) $6 + 4n - n = 0$

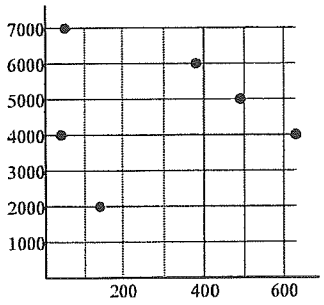
35) $5n - 26 = -3(2n + 5)$

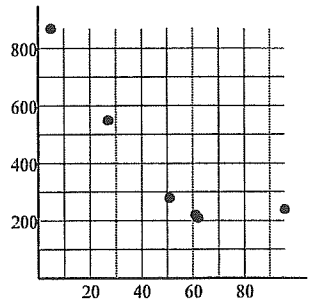
36) $-30 - x = 8(6 - 5x)$

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.

39) 

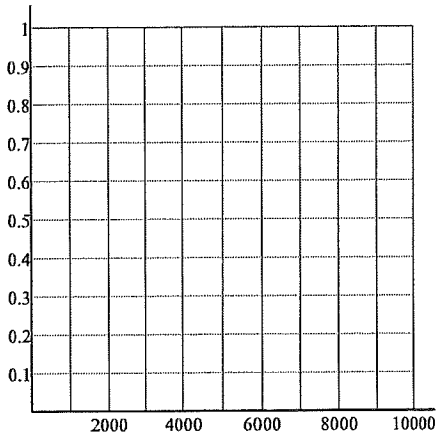
40) 

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

41)

X	Y
1,000	0.2
1,000	0.2
3,000	0.5
4,000	0.7
4,000	0.7

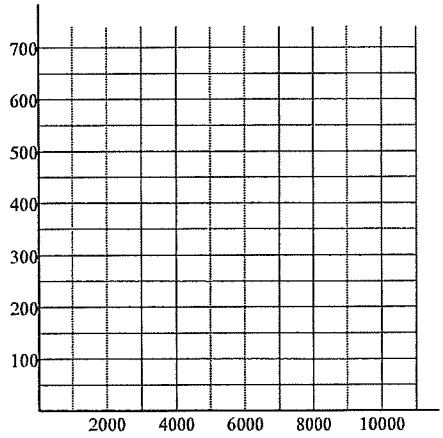
X	Y
5,000	0.8
6,000	0.8
7,000	0.8
9,000	0.8
10,000	0.8



42)

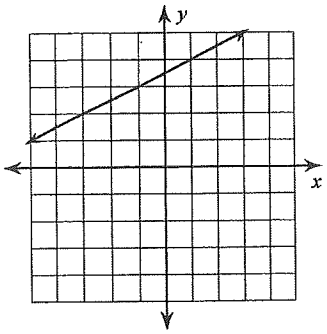
X	Y
1,000	730
1,600	90
2,300	430
3,900	610
4,400	720

X	Y
4,600	600
4,800	740
5,100	60
5,700	590
11,000	670

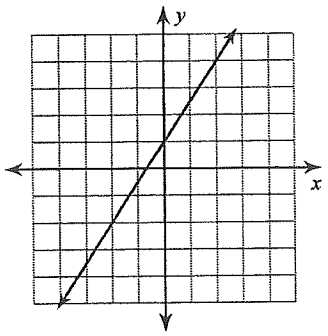


Questions 43-50. Find the Slope.

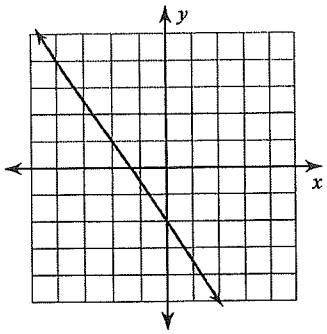
43)



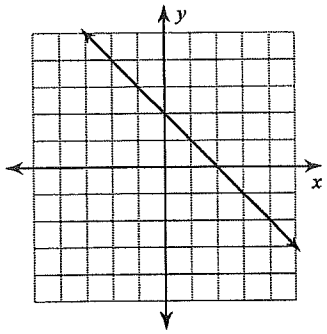
44)



45)



46)



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

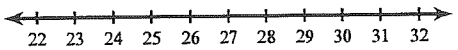
48) (-5, -20), (-12, -10)

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

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

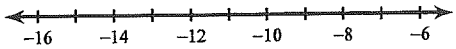
Solve each inequality and graph its solution.

51) $33 > 6 + a$

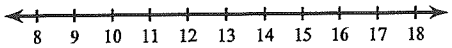


52) $-3 - x \leq -4$

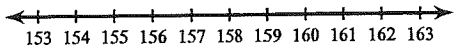
53) $-3 \geq 5 + v$



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) $x + y = -3$

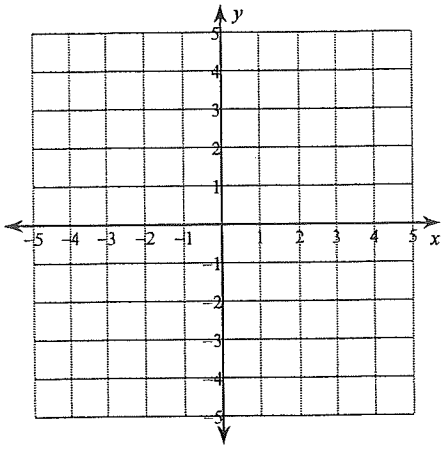
59) $7x - y = -8$

60) $3x + y = 5$

Solve each system by graphing.

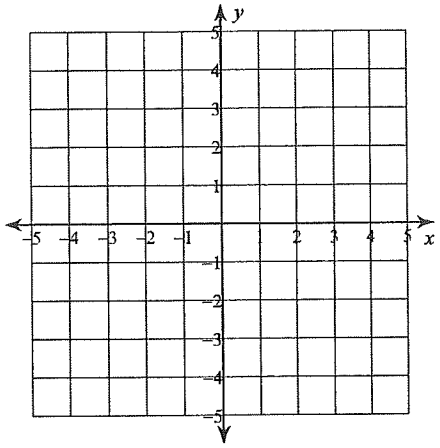
61) $y = \frac{7}{4}x + 3$

$x = -4$



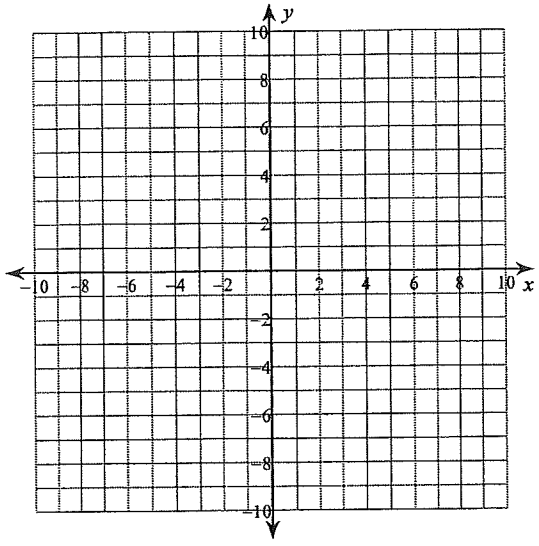
62) $y = \frac{1}{3}x + 1$

$y = -\frac{2}{3}x + 4$



63) $-x = 3y + 12$

$x = 24 + 3y$



64) $7y = -56 - 3x$

$-22x = 84 - 14y$