

Summer Pre-AP Algebra 1 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) $-7(1 + 2a) - 6a$

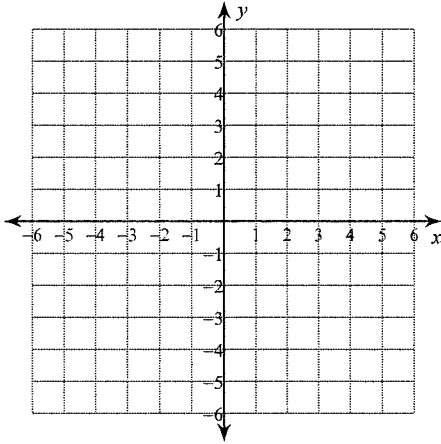
8) $-8 - 5(a - 5)$

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

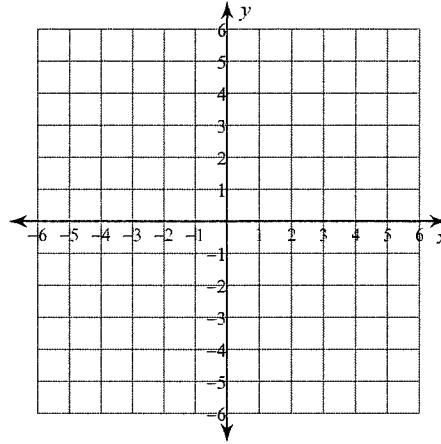
10) $-(1 - 3p) + 7(1 - 2p)$

Sketch the graph of each line.

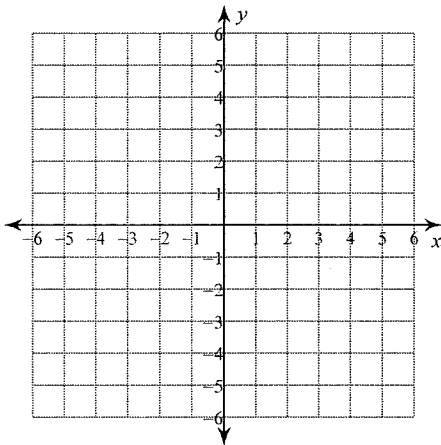
11) x -intercept = 3, y -intercept = -2



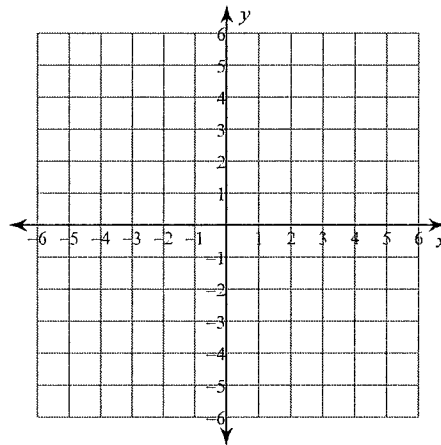
12) x -intercept = -5, y -intercept = 2



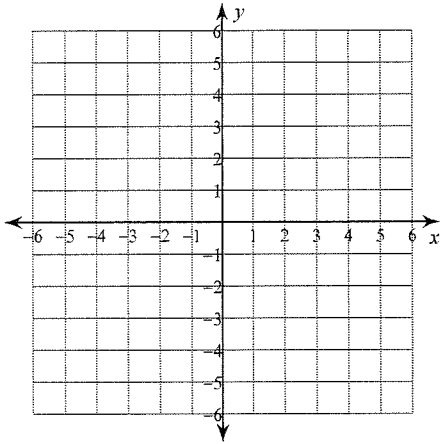
13) x -intercept = 2, y -intercept = 4



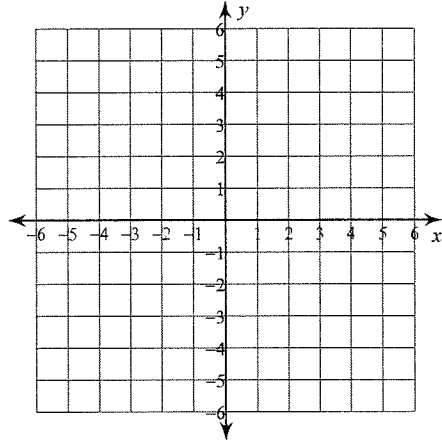
14) x -intercept = 3, y -intercept = -5



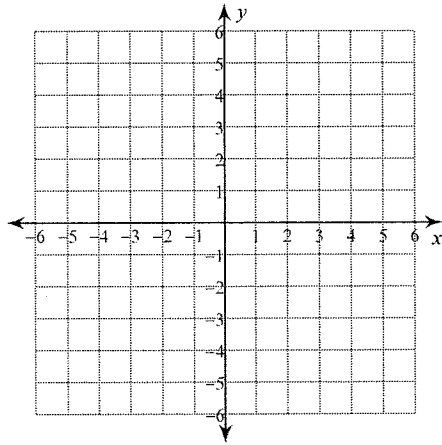
15) $y = -\frac{2}{3}x + 1$



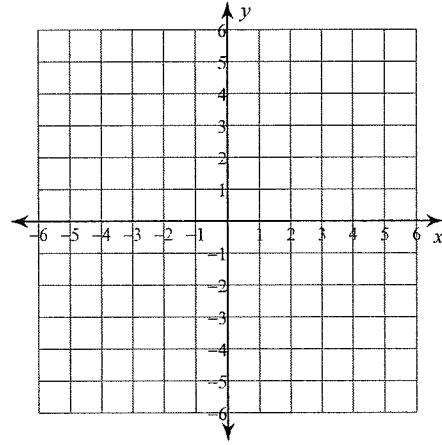
16) $y = -\frac{1}{4}x$



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

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

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

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

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

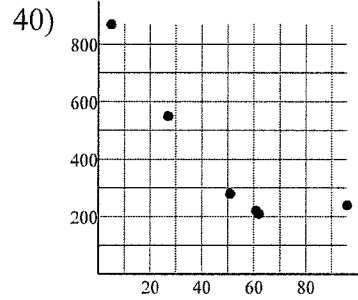
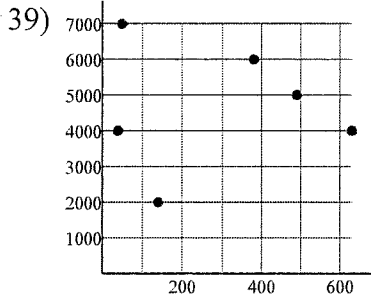
$$35) 5n - 26 = -3(2n + 5)$$

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

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

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

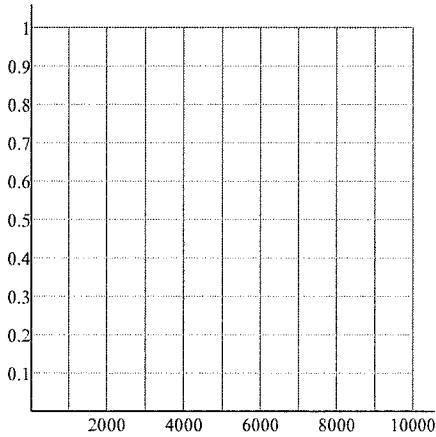
State if there appears to be a positive correlation, negative correlation, or no correlation.



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

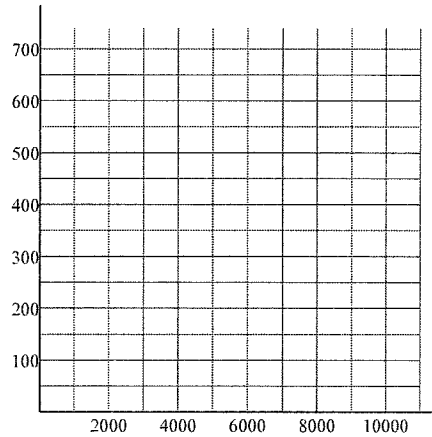
41)

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



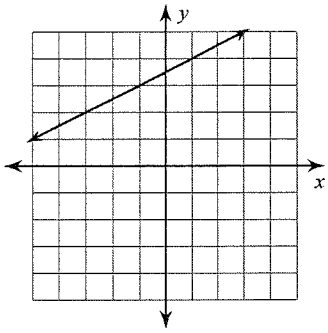
42)

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

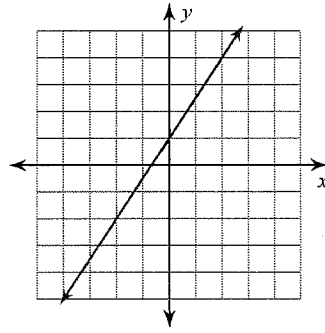


Questions 43-50. Find the Slope.

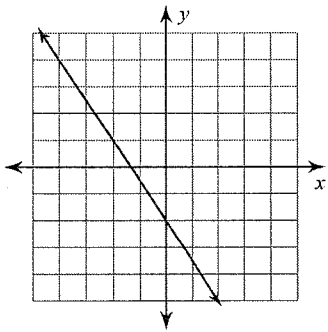
43)



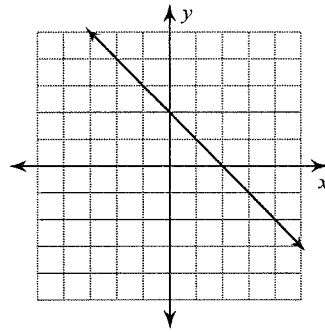
44)



45)



46)



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

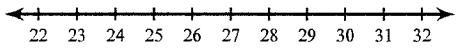
48) $(-5, -20), (-12, -10)$

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

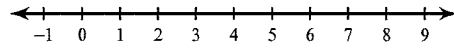
50) $(14, 6), (-7, -14)$

Solve each inequality and graph its solution.

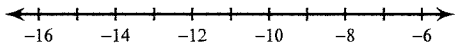
51) $33 > 6 + a$



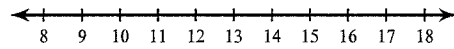
52) $-3 - x \leq -4$



53) $-3 \geq 5 + v$



54) $204 < 17n$



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

