

Only use a calculator if the problem states that you can.

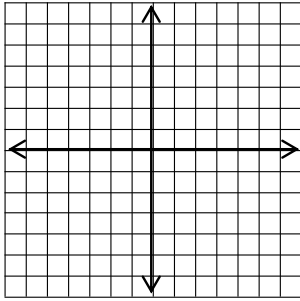
DAY 2

Find the x and y intercepts of each line, then graph. Be sure to write the intercepts as coordinates.

36. $3x + y = 6$

x-int _____

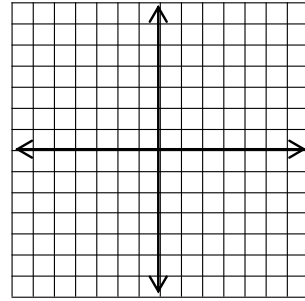
y-int _____



37. $2x - 7y = 14$

x-int _____

y-int _____



Find the slope between the points:

38. $(3, -4)$ and $(-1, 7)$

39. $(-9, 3)$ and $(-9, 7)$

40. $(-3, 7)$ and $(6, 7)$

Write an equation of a line using the given information. Leave your answer in slope-intercept form.

41. slope = -4 contains the point $(3, -6)$

42. contains the points $(1, 7)$ and $(2, -3)$

43. contains the point $(2, -4)$ and is parallel to the line $y = 3x + 5$

44. contains the point $(-3, -1)$ and is perpendicular to the line $y = \frac{1}{2}x - 4$

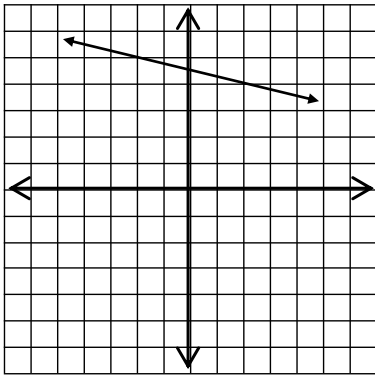
45. contains the point $(3, -5)$ and is parallel to the line $2x - 3y = 6$

46. Horizontal line that contains the point $(5, 4)$

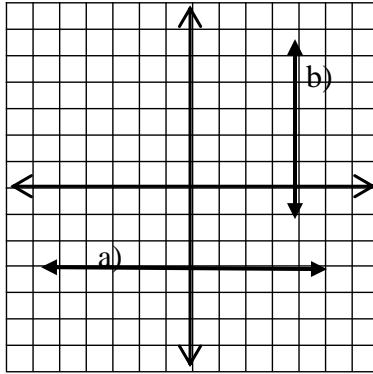
47. Vertical line that contains the point $(-4, 5)$

Find the equation of each line graphed.

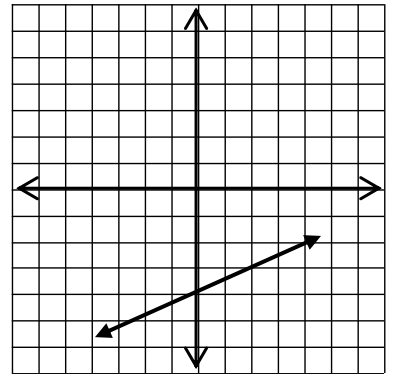
48.



49.



50.



Solve each system by the substitution method. If no solution or infinitely many solutions then state so.

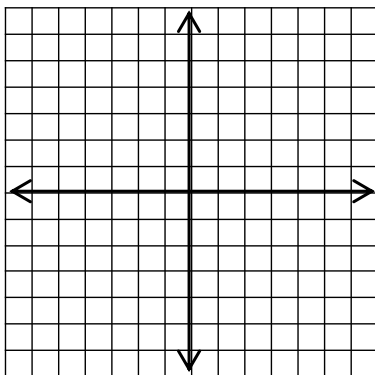
51. $2x + 2y = 4$
 $x = 10 - 3y$

52. $y + 3x = 1$
 $2y + 5x = 5$

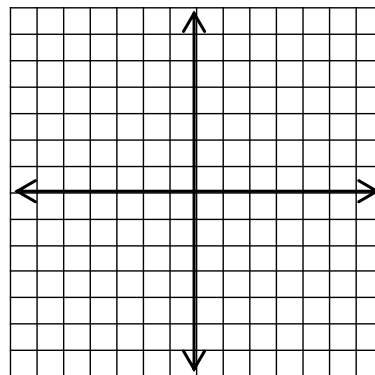
53. $y = \frac{3}{2}x - 4$
 $2y - 8 = 3x$

Solve each system by graphing.

54. $-3y = 2x - 6$
 $x + 4y = 8$



55. $2x = y - 1$
 $y = 3x$



Solve each system by the elimination method. If no solution or infinitely many solutions then state so.

56. $3x + 3y = 6$
 $2x - y = 1$

57. $3x - 5y = -13$
 $4x + 3y = 2$

58. $-4x + 2y = 12$
 $-2x + y = 6$

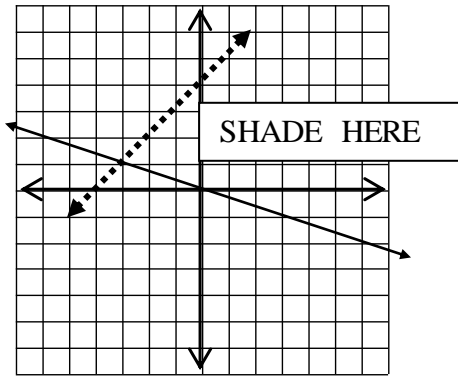
You may use a calculator on #59-60

59. How many ounces of a 20% salt solution should be mixed with a 11% salt solution to produce 45 ounces of a 14% salt solution?

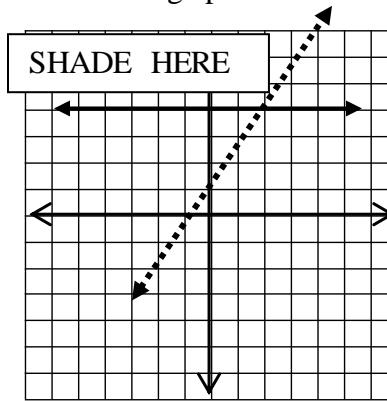
60. Suppose Paintball Jungle charges \$30 plus an additional \$6 per gun they rent out. Paintwar charges \$50 plus an additional \$4 per gun they rent out. Find the number of guns you must rent out for the two paintball rentals to cost the same.

Write the inequality or system of inequalities represented in the graph.

61.

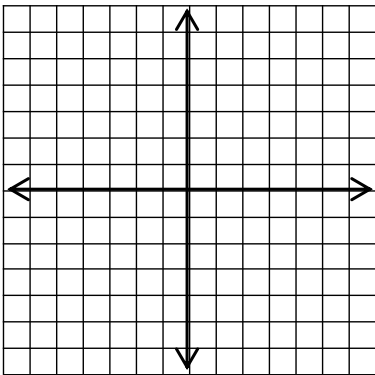


62.

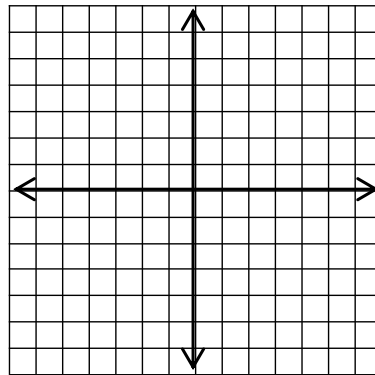


Graph each linear inequality.

63. $y < -\frac{2}{3}x + 4$



64. $y \geq -x - 5$



65. $-2x - 4y > 8$

