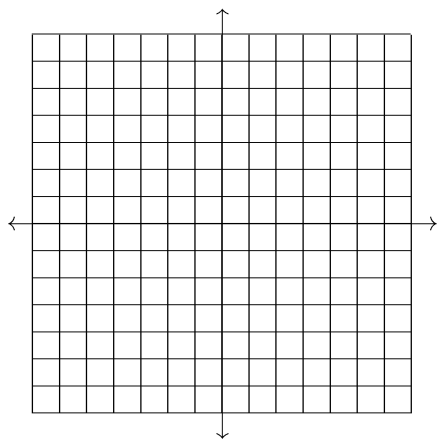


1. Solve: $-2n + 10 - 5n = 17$
2. Solve: $22 = 5b + 7(b - 2)$
3. Solve: $4(y - 9) - 10y = 0$
4. Solve: $5x - 6 = 8x + 6$
5. Solve: $5x + 2 = 7x - 2$
6. Solve: $3 - 2r + 8 = 6r + 11 - 8r$
7. Solve: $8d + 5 - 3d = 2 + 5d + 3$
8. Solve: $9 + 3x + 12 = 8x - 9 - 5x$
9. Solve: $-2(5 - 8d) = 4(7 + 4d)$
10. Solve: $|3z - 12| = 6$
11. Solve: $|5h + 8| = 3$
12. Solve for y : $3y - b = y + d$
13. Solve for x : $5x - 2b = x - c$
14. Solve for P in the equation $A = P + Prt$.
15. Solve for I in the equation $E = Ir + IR$.
16. Solve: $3k + 8 \geq 17$
17. Solve: $5p - 2 \leq -27$
18. Is $w = 7$ a solution to $4w - 17 \geq 3$?
19. Is $c = 0$ a solution to $3 + 7c < -17$?
20. Solve: $2n - 11 > 3n + 5$
21. Solve: $12 - 5u < 3u + 13$
22. Solve and graph: $2 > y + 10$
23. Solve and graph: $-24 \geq 8c$
24. Solve: $-5 < 2y - 3 \leq 23$
25. Solve: $13 \leq 4x + 1 \leq 29$
26. Solve and graph: $9 + 2u \geq 15$ or $3 - 4u > -1$
27. Solve and graph: $5w + 3 \leq 13$ or $6 - 7w \leq -15$
28. Solve and graph: $|6 - n| \geq 5$
29. Solve and graph: $|3 - 5u| \geq 33$
30. Solve and graph: $|5k - 4| \leq 6$
31. Solve and graph: $|2p - 7| \leq 13$
32. Consider the function $f(x) = -3x - 5$. What is $f(-6)$?
33. Consider the function $h(x) = (x - 1)(x + 1)$. What is $h(8)$?
34. Consider the function $g(x) = x^2 - 4x + 8$. What is $g(5)$?
35. Consider the function $f(x) = x^3 + x^2 + x$. What is $f(-3)$?
36. What is the x -intercept of the line $-3x + 8y - 24 = 0$?
37. What is the x -intercept of the line $5x - 7y + 35 = 0$?

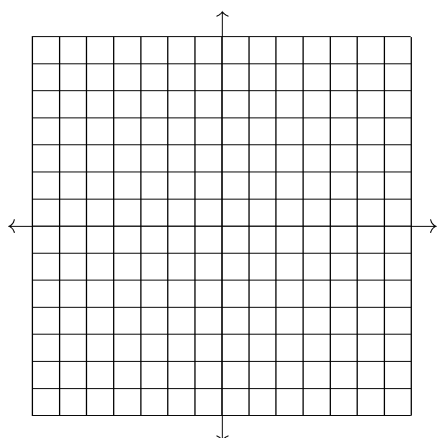
38. Graph a line with following intercepts:

x -intercept = 2, y -intercept = 5



39. Graph a line with the following intercepts:

x -intercept = -1 , y -intercept = -5



40. Find the slope of the line containing the points:
 $(-2, 4)$ $(-2, 8)$

41. Find the slope of the line containing the points:
 $(-3, 6)$ $(-3, 0)$

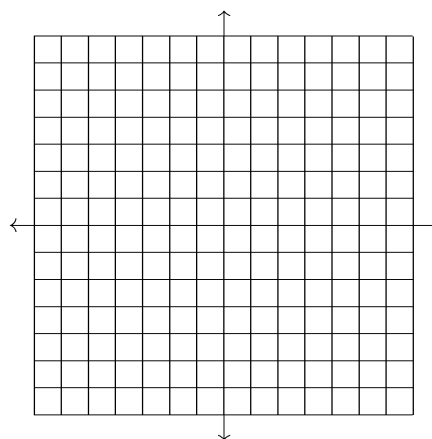
42. Find the slope of the line containing the points:
 $(6, -8)$ $(-2, 6)$

43. Find the slope of the line containing the points:
 $(-3, -3)$ $(-9, 7)$

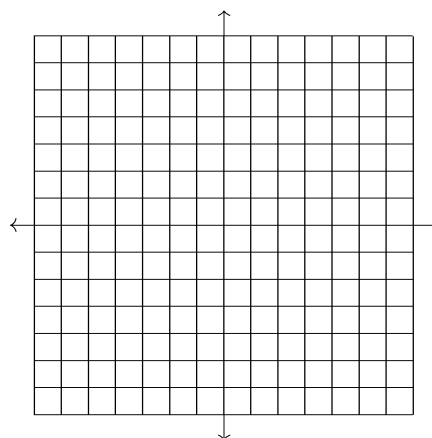
44. Find the slope of the line containing the points:
 $(2, -8)$ $(3, -8)$

45. Find the slope of the line containing the points:
 $(7, -5)$ $(2, -5)$

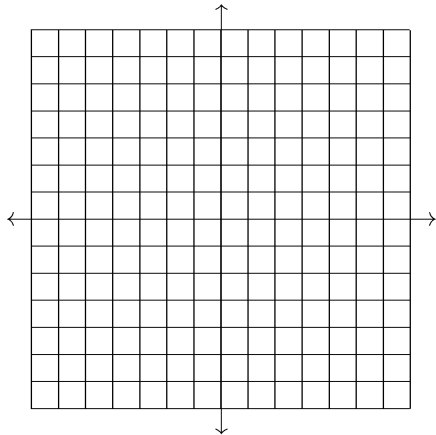
46. Graph the line of the equation $y = \frac{1}{5}x - 5$.



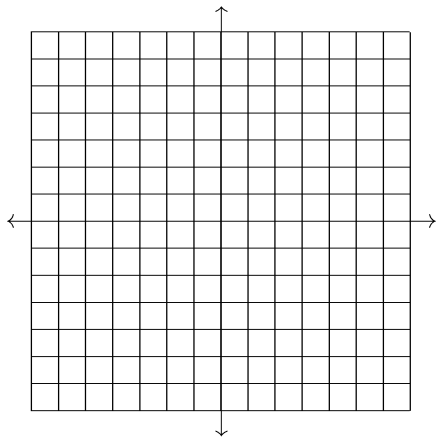
47. Graph the line of the equation $y = \frac{5}{2}x + 4$. Plot points on the grid and not off the grid.



48. Graph the equation $2x + 7y = 21$.

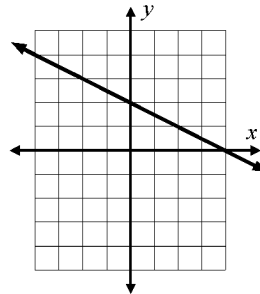


49. Graph the equation $6x + 5y = 30$.

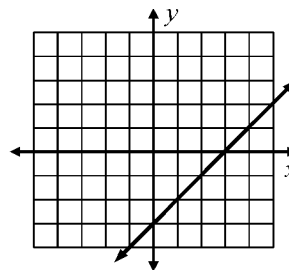


50. Write the equation of the line passing through the points $(0, -3)$ and $(-4, -5)$.
51. Write the equation of the line passing through the points $(9, 1)$ and $(0, -2)$.
52. Write a linear function f with the values $f(0) = 4$ and $f(10) = -8$.
53. Write a linear function f with the values $f(-6) = 2$ and $f(0) = 6$.
54. Find the equation of the line with a slope of $-\frac{1}{4}$ that contains the point $(4, -2)$.

55. Find the equation of the line with a slope of $\frac{1}{2}$ and contains the point $(-8, 0)$.
56. Write the equation of the line passing through the points $(-1, 7)$ and $(3, -9)$.
57. Write the equation of the line passing through the points $(-5, 8)$ and $(-3, 0)$.
58. Write the equation of the line in point-slope form that passes through the points $(6, -5)$ and $(-2, 7)$.
59. Write the equation of the line in point-slope form that passes through the points $(12, 7)$ and $(-6, -8)$.
60. What is the equation of the line shown on the graph?



61. What is the equation of the line shown on the graph?



62. What is the slope of all lines parallel to $-10x - 8y = 2$?
63. What is the slope of all lines parallel to $x + 4y = -6$?

64. What is the slope of all lines perpendicular to $-3x - y = 9$?

65. What is the slope of all lines perpendicular to $-15x + 9y = 3$?

66. Determine $f(2)$, $f(3)$, and $f(4)$ for the function below.

$$f(x) = \begin{cases} 2x - 1, & \text{if } x \leq 3 \\ 3x - 4, & \text{if } x > 3 \end{cases}$$

67. Determine $f(0)$, $f(1)$, and $f(2)$ for the function below.

$$f(x) = \begin{cases} 10 - 7x, & \text{if } x < 1 \\ 8x - 5, & \text{if } x \geq 1 \end{cases}$$

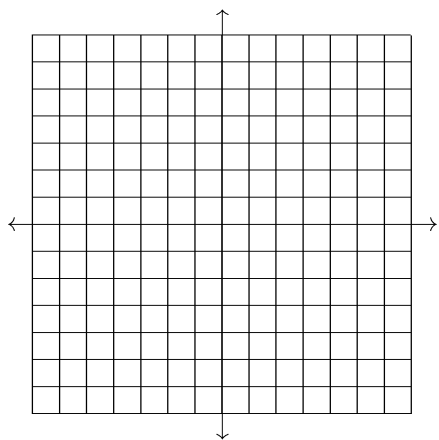
68. Which of these systems has $(-5, 2)$ as a solution?

I. $2x + 2y = 6$
 $15 - 3x = 6 + 5y$

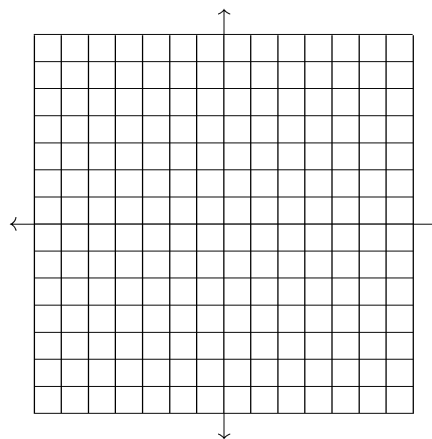
II. $8x + 20 = 10y$
 $3x - y = -17$

III. $4y - 2x = 18$
 $5x = 1 - 13y$

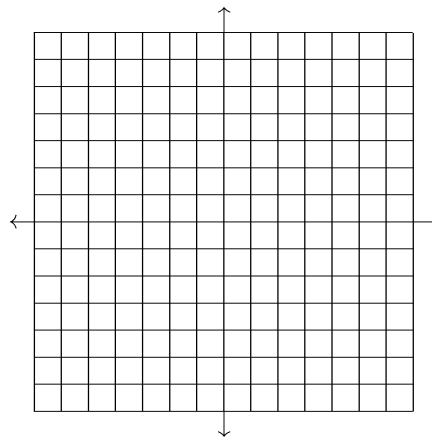
69. Solve by graphing: $y = -x - 2$
 $y = -3x + 4$



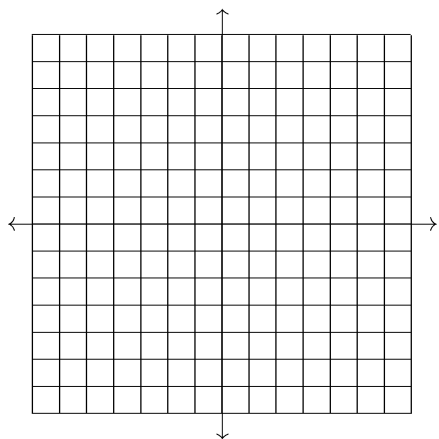
70. Solve by graphing: $y = 2x + 6$
 $y = x + 4$



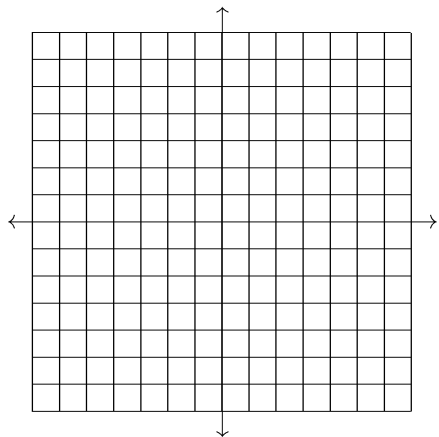
71. Solve by graphing: $-x + y - 2 = 0$
 $3x - y = 0$



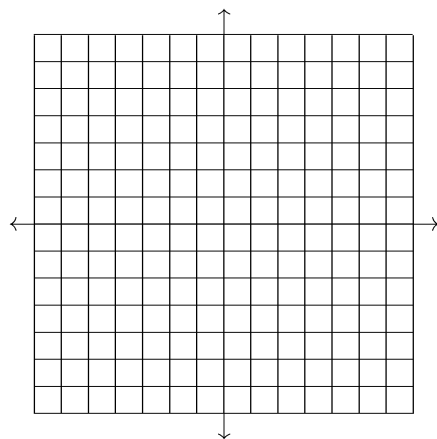
72. Solve by graphing: $-x + y = -6$
 $3x + y = 2$



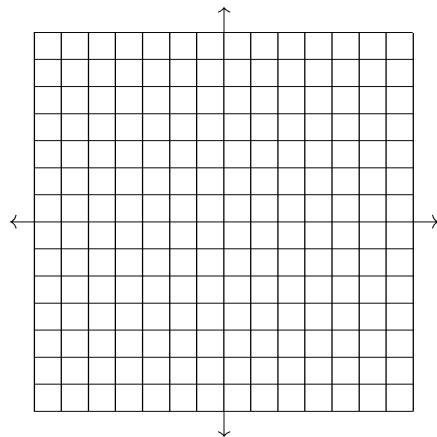
73. Solve by graphing: $y = 2x - 2$
 $y = 2x + 2$



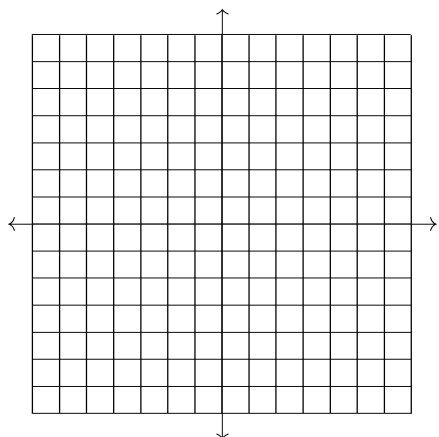
74. Solve by graphing: $y = -3x + 1$
 $y = -3x + 7$



75. Solve by graphing: $10x + 2y + 2 = 0$
 $5x + y + 1 = 0$



76. Solve by graphing: $6x - 3y = -6$
 $-2x + y = 2$



77. Solve by substitution: $x = 2y + 18$
 $2y - 10x = 0$

78. Solve by substitution: $8x = 4 + y$
 $y = 7x - 2$

79. Solve by substitution: $y = 1 - 6x$
 $y = -6x - 3$

80. Solve by substitution: $y = -3x + 1$
 $y = 7 - 3x$

81. Solve by substitution: $6x - 3y = -6$
 $-2x + y = 2$

82. Solve by substitution: $-2x - 12y = -6$
 $x + 6y = 3$

83. Solve by elimination: $-3x - 9y + 6 = 0$
 $3x + 5y - 14 = 0$

84. Solve by elimination: $5x - 3y - 2 = 0$
 $-4x + 3y - 2 = 0$

85. Solve by elimination: $2x + 4y = 14$
 $3x - y = 14$

86. Solve by elimination: $-3x + y = -3$
 $5x - 2y = 10$

87. Solve by elimination: $-2x - 7y = 7$
 $3x + 10y = -8$

88. Solve by elimination: $3x + 4y + 1 = 0$
 $-5x - 9y + 17 = 0$

89. Solve the system: $2x - 3y - 1 = 0$
 $-8x + 12y - 4 = 0$

90. Solve the system: $12x - 10y = 0$
 $-6x + 5y = 2$

91. Solve the system: $x + y = 4$
 $3x + 3y = 12$

92. Solve the system: $2x - 4y = 6$
 $x - 2y = 3$

93. Determine which of the following ordered pairs are solutions to this inequality: $2y - 3x \geq 6$

I. $(-4, 3)$

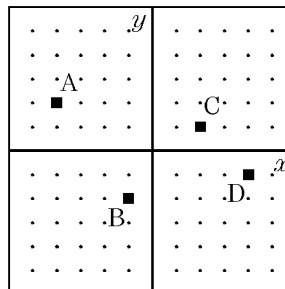
II. $(1, -1)$

III. $(2, 4)$

IV. $(3, 0)$

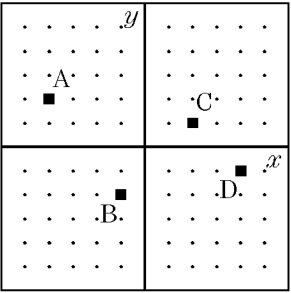
94. Graph the inequality and determine which of the points are solutions.

$$y \leq -2x - 2$$



95. Graph the inequality and determine which of the points are solutions.

$$3x + 6y \leq 12$$



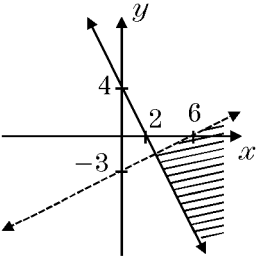
96. Graph the inequality $3x + 2y \leq 6$

97. Graph the inequality $4x - 5y > 20$.

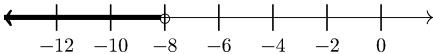
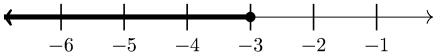
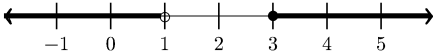
98. Graph the inequality $x \leq 2$.

99. Graph the inequality $y > 3$

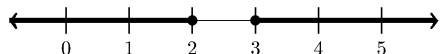
100. Write a system of inequalities for the graph.



1.
Answer: -1
CodePath: ALG.GE.70
2.
Answer: 3
CodePath: ALG.GE.115
3.
Answer: -6
CodePath: ALG.GE.113
4.
Answer: -4
CodePath: ALG.GF.28
5.
Answer: 2
CodePath: ALG.GF.23
6.
Answer: infinitely many solutions
CodePath: ALG.GF.75
7.
Answer: infinitely many solutions
CodePath: ALG.GF.73
8.
Answer: no solution
CodePath: ALG.GF.84
9.
Answer: no solution
CodePath: ALG.GF.104
10.
Answer: $2, 6$
CodePath: ALG.OD.65
11.
Answer: $-1, -\frac{11}{5}$
CodePath: ALG.OD.67
12.
Answer: $\frac{b+d}{2}$
CodePath: ALG.GH.49
13.
Answer: $\frac{2b-c}{4}$
CodePath: ALG.GH.50

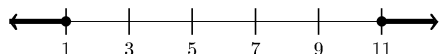
14.
Answer: $\frac{A}{1+rt}$
CodePath: ALG.GH.59
15.
Answer: $\frac{E}{r+R}$
CodePath: ALG.GH.60
16.
Answer: $k \geq 3$
CodePath: ALG.OA.105
17.
Answer: $p \leq -5$
CodePath: ALG.OA.122
18.
Answer: $w = 7$ is a solution.
CodePath: ALG.OA.112
19.
Answer: $c = 0$ is not a solution.
CodePath: ALG.OA.121
20.
Answer: $n < -16$
CodePath: ALG.OB.21
21.
Answer: $u > -\frac{1}{8}$
CodePath: ALG.OB.22
22.
Answer: $y < -8$

 CodePath: ALG.OA.7
23.
Answer: $c \leq -3$

 CodePath: ALG.OA.52
24.
Answer: $-1 < y \leq 13$
CodePath: ALG.OC.45
25.
Answer: $3 \leq x \leq 7$
CodePath: ALG.OC.46
26.
Answer: $u < 1$ or $u \geq 3$

 CodePath: ALG.OC.49

27.

Answer: $w \leq 2$ or $w \geq 3$ 

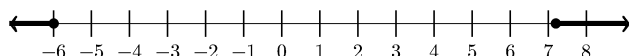
CodePath: ALG.OC.50

28.

Answer: $n \leq 1$ or $n \geq 11$ 

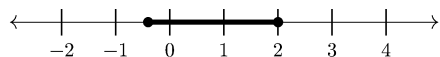
CodePath: ALG.OE.63

29.

Answer: $u \geq \frac{36}{5}$ or $u \leq -6$ 

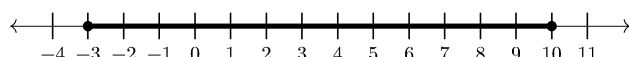
CodePath: ALG.OE.84

30.

Answer: $-\frac{2}{5} \leq k \leq 2$ 

CodePath: ALG.OE.78

31.

Answer: Solve: $-3 \leq p \leq 10$ 

CodePath: ALG.OE.83

32.

Answer: 13

CodePath: ALG.DA.10

33.

Answer: 63

CodePath: ALG.DA.35

34.

Answer: 13

CodePath: ALG.DA.37

35.

Answer: -21

CodePath: ALG.DA.38

36.

Answer: -8

CodePath: ALG.PE.94

37.

Answer: -7

CodePath: ALG.PE.95

38.

Answer: Line passes through (2, 0) & (0, 5).

CodePath: ALG.PF.73

39.

Answer: Line passes through (-1, 0) & (0, -5).

CodePath: ALG.PF.76

40.

Answer: undefined

CodePath: ALG.PA.43

41.

Answer: undefined

CodePath: ALG.PA.20

42.

Answer: $-\frac{7}{4}$

CodePath: ALG.PA.16

43.

Answer: $-\frac{5}{3}$

CodePath: ALG.PA.34

44.

Answer: 0

CodePath: ALG.PA.21

45.

Answer: 0

CodePath: ALG.PA.40

46.

Answer: Line passes through (0, -5) and (5, -4).

CodePath: ALG.PE.27

47.

Answer: Line passes through (0, 4) and (-2, -1).

CodePath: ALG.PE.26

48.

Answer: Line passes through (0, 3) and (7, 1).

CodePath: ALG.PE.89

49.

Answer: Line passes through (0, 6) and (5, 0).

CodePath: ALG.PE.93

50.

Answer: $y = \frac{1}{2}x - 3$

CodePath: ALG.PF.71

51.

Answer: $y = \frac{1}{3}x - 2$

CodePath: ALG.PF.72

52.

Answer: $y = -\frac{6}{5}x + 4$

CodePath: ALG.PF.69

53.
 Answer: $y = \frac{2}{3}x + 6$
 CodePath: ALG.PF.70
54.
 Answer: $y = -\frac{1}{4}x - 1$
 CodePath: ALG.PF.25
55.
 Answer: $y = \frac{1}{2}x + 4$
 CodePath: ALG.PF.26
56.
 Answer: $y = -4x + 3$
 CodePath: ALG.PF.105
57.
 Answer: $y = -4x - 12$
 CodePath: ALG.PF.107
58.
 Answer: $y + 5 = -\frac{3}{2}(x - 6)$
 CodePath: ALG.PF.113
59.
 Answer: $y - 7 = \frac{5}{6}(x - 12)$
 CodePath: ALG.PF.114
60.
 Answer: $y = -\frac{1}{2}x + 2$
 CodePath: TX7.IB.23
61.
 Answer: $y = x - 3$
 CodePath: TX7.IB.24
62.
 Answer: $-\frac{5}{4}$
 CodePath: ALG.PH.19
63.
 Answer: $-\frac{1}{4}$
 CodePath: ALG.PH.20
64.
 Answer: $\frac{1}{3}$
 CodePath: ALG.PH.21
65.
 Answer: $-\frac{3}{5}$
 CodePath: ALG.PH.24
66.
 Answer: $f(2) = 3, f(3) = 5, f(4) = 8$
 CodePath: TRI.HF.25
67.
 Answer: $f(0) = 10, f(1) = 3, f(2) = 11$
 CodePath: TRI.HF.26

68.
 Answer: III only
 CodePath: MMA.IG.14
69.
 Answer: $(3, -5)$
 CodePath: ALG.QA.87
70.
 Answer: $(-2, 2)$
 CodePath: ALG.QA.88
71.
 Answer: $(1, 3)$
 CodePath: ALG.QA.126
72.
 Answer: $(2, -4)$
 CodePath: ALG.QA.145
73.
 Answer: no solution
 CodePath: ALG.QA.91
74.
 Answer: no solution
 CodePath: ALG.QA.92
75.
 Answer: infinitely many solutions
 CodePath: ALG.QA.165
76.
 Answer: infinitely many solutions
 CodePath: ALG.QA.167
77.
 Answer: $(-2, -10)$
 CodePath: ALG.QB.148
78.
 Answer: $(2, 12)$
 CodePath: ALG.QB.149
79.
 Answer: no solution
 CodePath: ALG.QA.89
80.
 Answer: no solution
 CodePath: ALG.QA.92
81.
 Answer: infinitely many solutions
 CodePath: ALG.QA.167
82.
 Answer: infinitely many solutions
 CodePath: ALG.QA.168

83.

Answer: $(8, -2)$

CodePath: ALG.QB.9

84.

Answer: $(4, 6)$

CodePath: ALG.QB.11

85.

Answer: $(5, 1)$

CodePath: ALG.QB.13

86.

Answer: $(-4, -15)$

CodePath: ALG.QB.15

87.

Answer: $(14, -5)$

CodePath: ALG.QB.37

88.

Answer: $(-11, 8)$

CodePath: ALG.QB.38

89.

Answer: no solution

CodePath: ALG.QB.49

90.

Answer: no solution

CodePath: ALG.QB.52

91.

Answer: infinitely many solutions

CodePath: ALG.QB.25

92.

Answer: infinitely many solutions

CodePath: ALG.QB.26

93.

Answer: I only

CodePath: CM2.DH.4

94.

Answer: A and B only

CodePath: CM2.DH.10

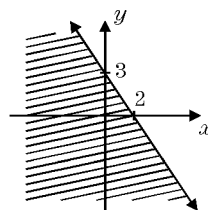
95.

Answer: A, B, C, and D

CodePath: CM2.DH.14

96.

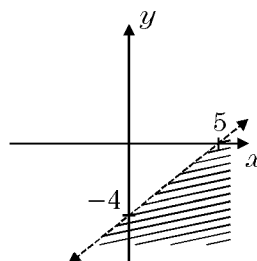
Answer:



CodePath: MMA.IG.47

97.

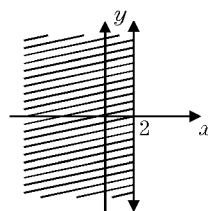
Answer:



CodePath: MMA.IG.55

98.

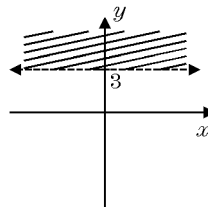
Answer:



CodePath: MMA.IG.52

99.

Answer:



CodePath: MMA.IG.54

100.

Answer: $x - 2y > 6$

$$2x + y \geq 4$$

CodePath: MMA.IG.69