

# Algebra 1 First Semester Exam Review Answers

1. 32
2. 11
3. 20
4. 115
5. 34
6.  $8x + 3y$
7.  $8y + 21$
8.  $-3x - 12$
9.  $4x$
10.  $5=14$ , No
11. B
12.  $30=30$ , Yes
13.  $x = -9$
14.  $x = -76$
15.  $x = 8$
16.  $x = 12$
17.  $-21=-4$ , No Solution
18.  $x = -9$
19.  $x = 4$
20.  $r = \frac{-8}{3}$
21.  $y = 13$
22. IMS
23.  $x = 3$
24.  $x = 5$
25.  $h = \frac{2A}{b}$
26. 34.  $l = \frac{p-2w}{2}$  or  $L = \frac{p}{2} - w$   $L = \frac{p}{2} - w$
27.  $y = \frac{-1}{2}x + 5$
28.  $35m < 650$
29.  $2x - 3 = 17$   
 $x = 10$
30.  $3x + 5 = 20$   
 $x = 5$
31. The smaller number is 25.
32. The larger integer is 24.
33. Distributive Property of Equality
34. Commutative Property of Addition
35. Associative Property of Addition
36. a. 28 b. -22 c. -2
37. 13
38. 4
39. a. 2  
b.  $y = x - 5$
40. D
41. No
42. Domain: All Reals

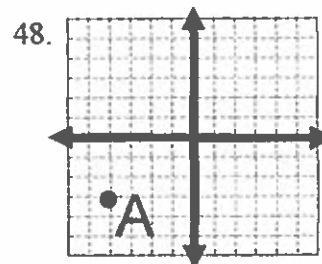
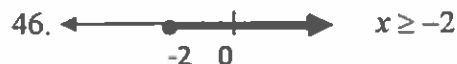
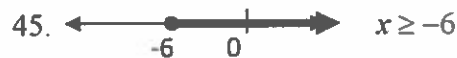
Range:  $y \geq -3$

Yes it is a function

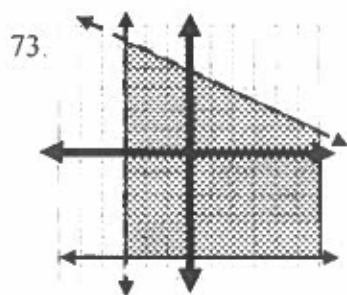
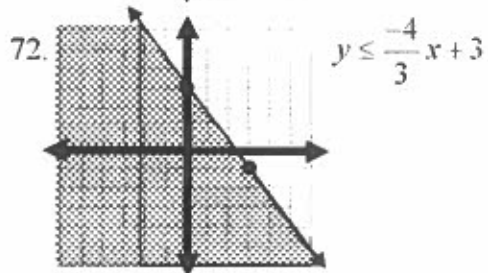
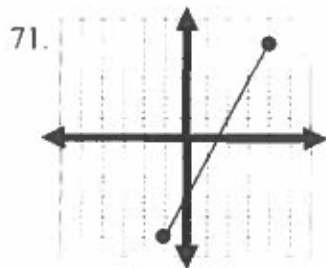
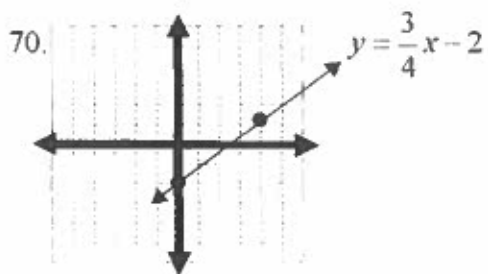
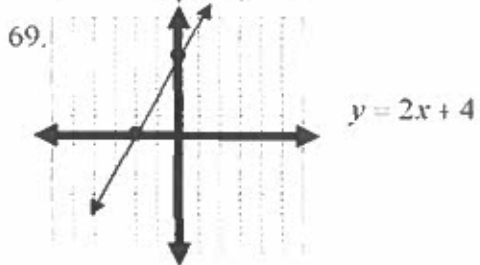
43. Domain:  $-1 \leq x \leq 3$

Range:  $-4 \leq y \leq 4$

No it is not a function



49. IV
50.  $(-2, 1)$
51.  $(0, -4)$
52. II and y-axis
53. Zero
54.  $\frac{-9}{2}$
55. Undefined
56.  $\frac{7}{3}$
57. y-intercept : 7  
slope :  $\frac{-3}{2}$
58.  $m = \frac{3}{5}$
59.  $m = \frac{-5}{3}$
60.  $x = 2$
61. undefined
62.  $y = -1$
63. zero
64. 2
65.  $(-1, 0)$
66.  $(0, 2)$
67.  $y = 2x + 2$



74.  $5x + y = 6$   
 75.  $2x - 5y = 15$   
 76.  $y = 2x - 6$

77.  $3x + y = 7$   
 78.  $y - 5 = \frac{3}{5}(x + 2)$   
 79.  $5x - y = 4$   
 80.  $y = \frac{2}{3}x + 1$   
 81.  $y = -3x + 17$   
 82.  $y = -\frac{1}{2}x + 1$   
 83.  $x + 2y = 2$   
 84. One solution (list the ordered pair)  
     No solution  
     Infinitely many solutions  
 85. (1, 2)  
 86. No solution  
 87. (13, 6)  
 88. The length is 13 feet.  
     The width is 5 feet.