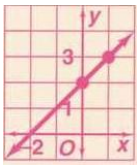
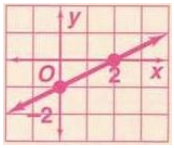
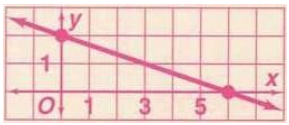
Lesson 3.5

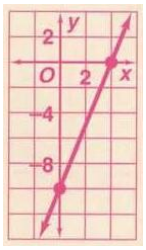
Homework Answers

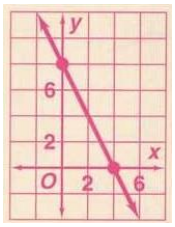
Pg 155 - #1-43 odd, 48-51, 53, 55, 61-64

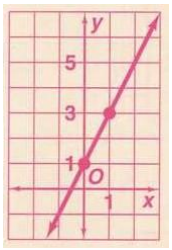
1. 

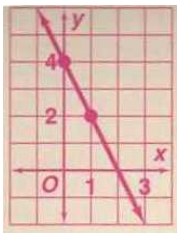
3. 

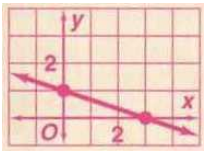
5. 

7. 

9. 

11. a) $y = 2x + 1$ b) 

13. a) $y = -2x + 4$ b) 

15. a) $y = -\frac{1}{3}x + 1$ b) 

17. $y - 3 = 2(x - 2)$

19. $y - 5 = -1(x + 3)$

21. $y - 1 = \frac{1}{2}(x - 6)$

Probs 23-27 may vary, examples given.

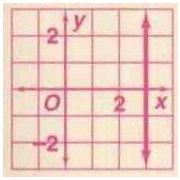
23. $y - 5 = \frac{3}{5}(x - 0)$

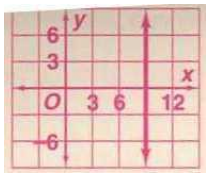
25. $y - 6 = 1(x - 2)$

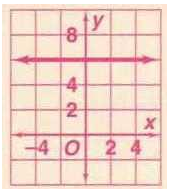
27. $y - 0 = \frac{1}{2}(x + 1)$

29. a) $y = 7$ b) $x = 4$

31. a) $y = -1$ b) $x = 0$

33. 

35. 

37. 

39. No; a line w/no slope is a vertical line. Zero slope is a horizontal line.

41. a) Undefined; it is a vertical line. b) $x = 0$

43. The eq. is in slope-int. form; use slope-int. form, because the eq. is already in that form.

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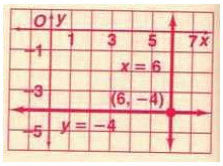
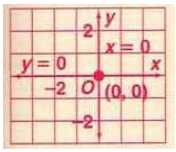
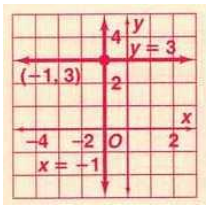
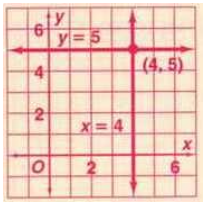
48. 

49. 

50. 

51. 

53. The y-intercepts are the same.

The lines have the same steepness.

Their tilt is opposite (one rises from left to right, the other falls from left to right)

55. The 2 points are (2, 0), (0, 4).

Slope: $m = \frac{0-4}{2-0} = -\frac{4}{2} = -2$

Point-slope form: $y - 0 = -2(x - 2)$

or Standard form: $2x + y = 4$

or Slope-int form: $y = -2x + 4$

61. $y - 2 = 3(x + 2);\ 3x - y = -8$

62. $y - 5 = \frac{1}{2}(x - 5);\ x - 2y = -5$

63. $y - 6 = \frac{2}{3}(x - 2);\ 2x - 3y = -14$

64. D