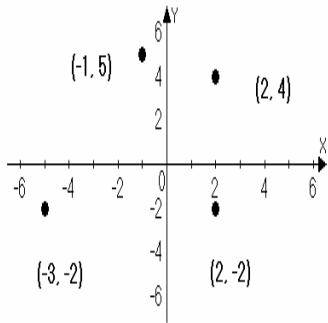


Practice Set Chapter 4 Answers

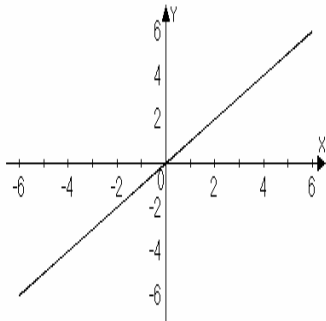
4.1

1 - 4

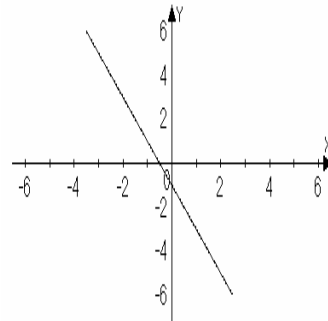


1. quadrant I 2. quadrant III 3. quadrant II
 4. quadrant IV 5. (3, 1) 6. (-4, 0) 7. (-1, -1)
 8. (1, -3) 9a. No b. No c. Yes
 10a. Yes b. No c. No

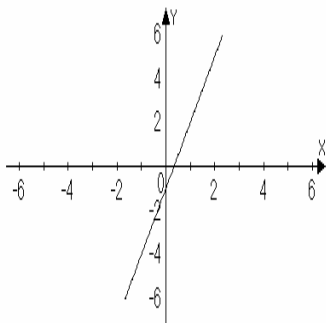
11. $(-2, -2)(-1, -1)(0, 0)(1, 1)(2, 2)$



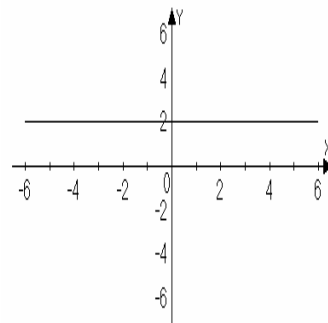
12. $(-2, 3)(-1, 1)(0, -1)(1, -3)(2, -5)$



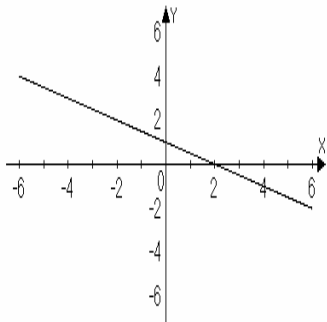
13. $(-2, -7)(-1, -4)(0, -1)(1, 2)(2, 5)$



14. $(-2, 2)(-1, 2)(0, 2)(1, 2)(2, 2)$



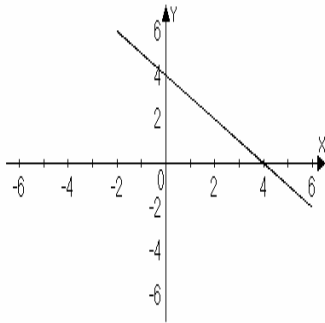
15. $(-4, 3)(-2, 2)(0, 1)(2, 0)(4, -1)$



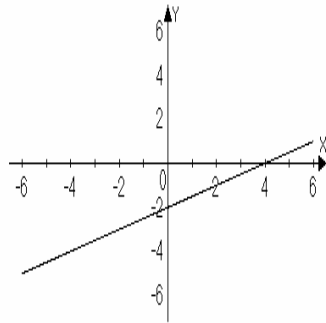
4.2

1. $(3, 0)(0, -5)$ 2. $(2, 0)(0, -4)$ 3. $(0, 0)(0, 0)$ 4. $(-2, 0)(0, -3)$ 5. $\left(\frac{7}{4}, 0\right)\left(0, \frac{-7}{3}\right)$

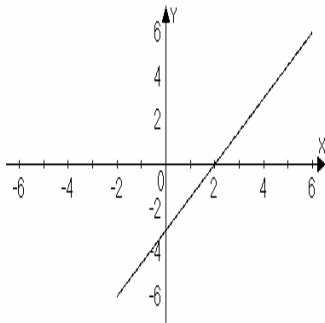
6.



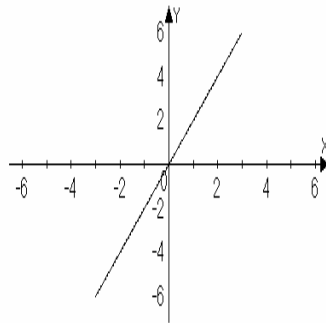
7.



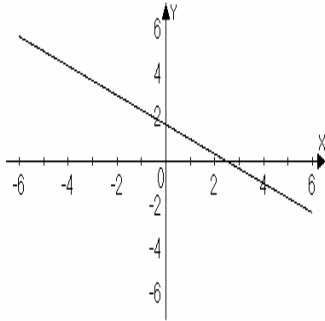
8.



9.

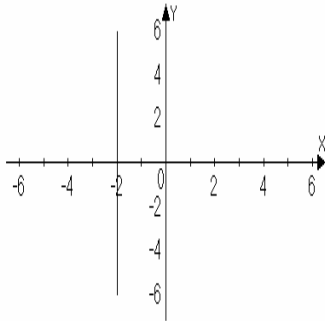


10.

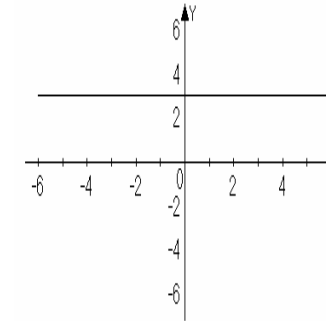


11. $x = 3$ 12. $y = -2$

13.



14.

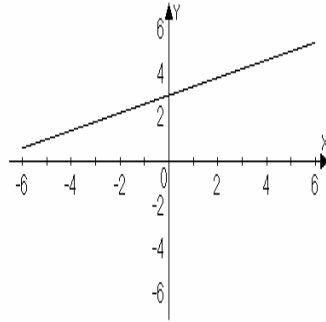


4.3

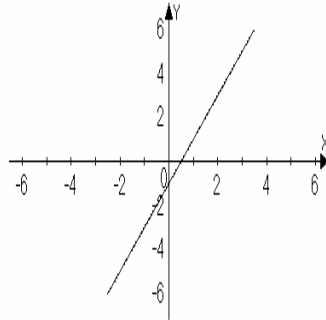
1. $m = \frac{3}{1}$, rises
2. $m = 0$, horizontal
3. $m = \frac{-13}{5}$, falls
4. m is undefined, vertical
5. $m = -2$, falls
6. $m = 1$, rises
7. m is undefined, vertical
8. $m = 0$, horizontal
9. $m = -\frac{2}{3}$
10. $m = 0$
11. m is undefined
12. $m = 2$
13. perpendicular
14. parallel
15. neither.

4.4

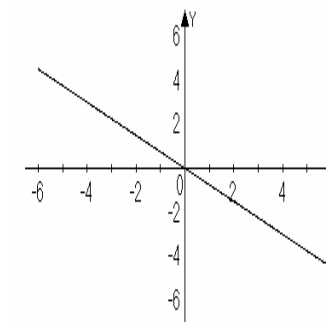
- 1a. $m = 2$ b. y-intercept $(0, -4)$ 2a. $m = -\frac{1}{2}$ b. y-intercept $(0, 0)$ 3a. $m = 0$
- b. y-intercept $(0, 3)$ 4a. $m = -1$ b. y-intercept $(0, 6)$
- 5a. $m = \frac{2}{5}$ b. y-intercept $(0, 3)$ c.



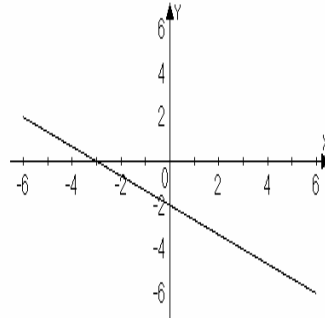
- 6a. $m = 2$ b. y-intercept $(0, -1)$ c.



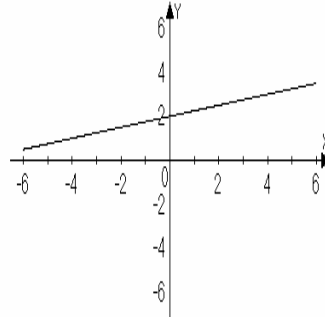
- 7a. $m = \frac{-3}{4}$ b. y-intercept $(0, 0)$ c.



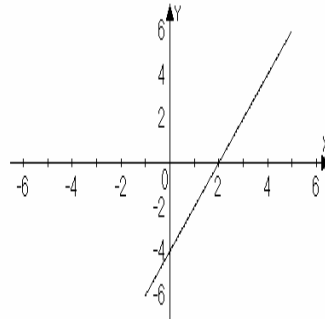
8a. $m = \frac{-2}{3}$ b. y-intercept $(0, -2)$ c.



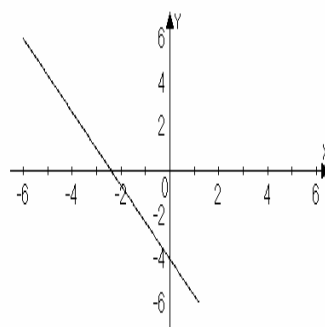
9a. $m = \frac{1}{4}$ b. y-intercept $(0, 2)$ c.



10a. $m = 2$ b. y-intercept $(0, -4)$ c.



11a. $m = \frac{-5}{3}$ b. y-intercept $(0, -4)$ c.



12. positive 13. negative 14. zero

15. undefined

4.5

1a. $y - 1 = -2(x - 3)$ b. $y = -2x + 7$ 2a. $y - 4 = 2(x - 1)$ or $y + 2 = 2(x + 2)$ b. $y = 2x + 2$

3a. $y - 1 = \frac{-2}{3}(x - 0)$ b. $y = \frac{-2}{3}x + 1$ 4a. $y + 1 = 0(x - 2)$ or $y + 1 = 0(x - 4)$ b. $y = -1$

5a. $y - 0 = -4(x - 0)$ b. $y = -4x$ 6a. $y - 2 = -1(x + 3)$ b. $y = -x - 1$

7a. $y - 4 = 1(x - 0)$ or $y - 7 = 1(x - 3)$ b. $y = x + 4$ 8a. $y - 0 = -2(x - 1)$ b. $y = -2x + 2$

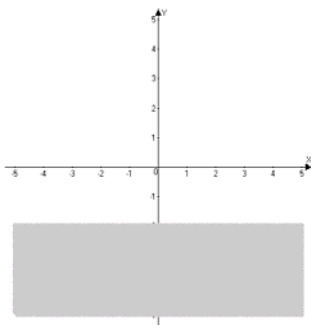
9a. $y - 4 = \frac{1}{2}(x + 2)$ b. $y = \frac{1}{2}x + 5$

10a. $y - 0 = \frac{1}{3}(x - 3)$ or $y + 1 = \frac{1}{3}(x - 0)$ b. $y = \frac{1}{3}x - 1$

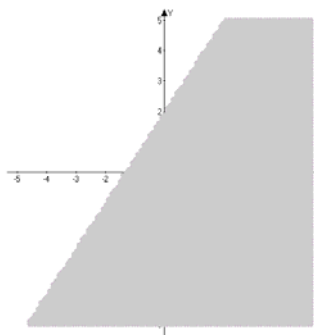
4.6

1a. Yes b. Yes c. No 2a. No b. No c. Yes 3a. Yes b. No c. Yes 4a. Yes b. Yes c. No

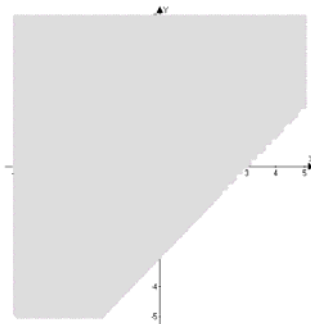
5.



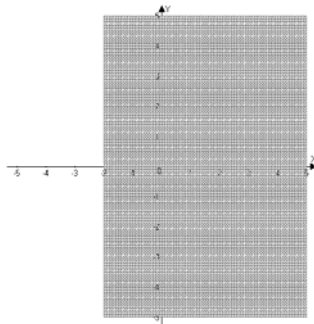
6.



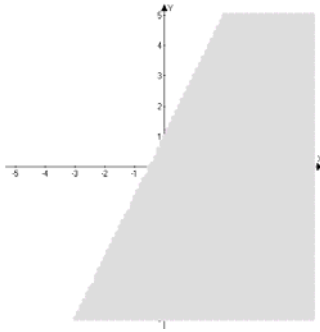
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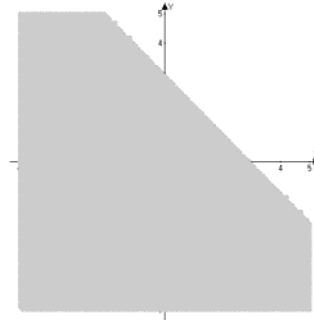
8.



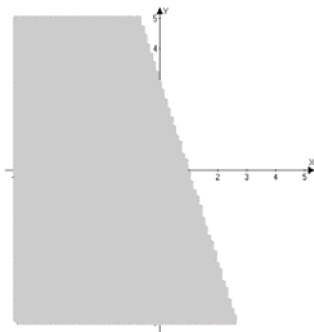
9.



10.



11.



12.

