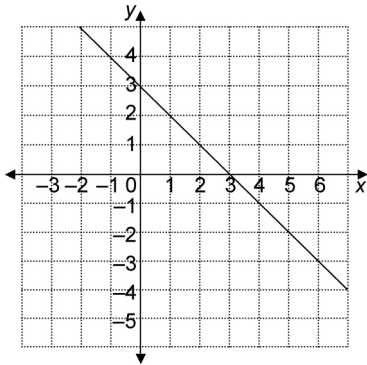


BLM Answers

BLM 6.GR.1 Practice: Get Ready

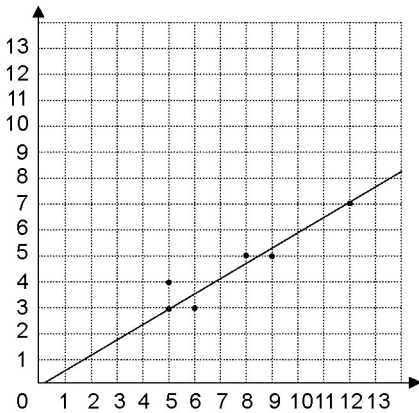
1. a) 4; the slope is the speed, in this case, 4 m/s
 b) 0; the object was at "home" when it started moving

2. a)



- b) -1
 c) 3

3. a)



b) about 6

4. a) $\frac{1}{3}$ b) 1 c) $-\frac{2}{5}$

3. a) $y = -3x + 6$

b) $y = \frac{1}{2}x + 2$

c) $y = -\frac{2}{5}x - 2$

d) $y = \frac{3}{5}x + 3$

4. a) $y = x - 3$

b) $y = -6x + 6$

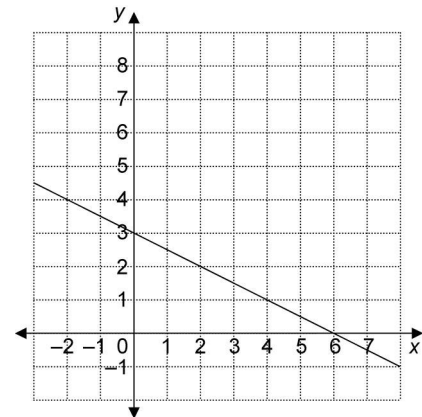
5. a) $y = -2x + 1$

b) $y = \frac{2}{3}x - 4$

c) $y = 5x$

d) $y = -\frac{3}{2}x + 3$

6. a) slope $-\frac{1}{2}$; y-intercept 3



- b) slope 1; y-intercept -4

BLM 6.1.1 Practice: The Equation of a Line in Slope y-Intercept Form: $y = mx + b$

1.

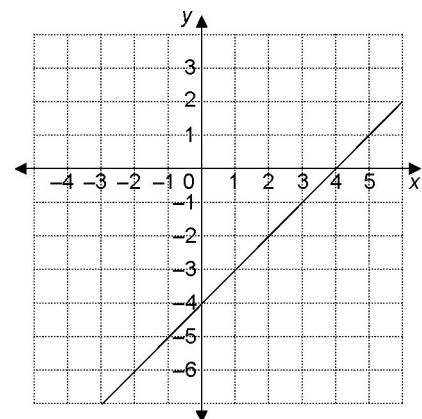
| | Equation | Slope | y-Intercept |
|----|-----------------------|---------------|-------------|
| a) | $y = 4x + 1$ | 4 | 1 |
| b) | $y = \frac{x}{2} - 3$ | $\frac{1}{2}$ | -3 |
| c) | $y = -2x$ | -2 | 0 |
| d) | $y = -x + 2$ | -1 | 2 |

2. a) -3; 6

b) $\frac{1}{2}$; 2

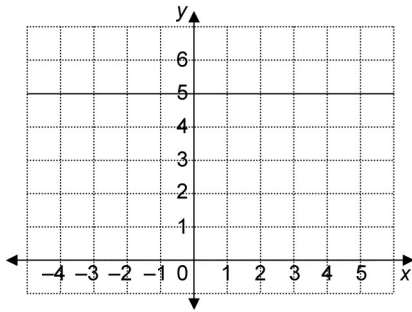
c) $-\frac{2}{5}$; -2

d) $\frac{3}{5}$; 3

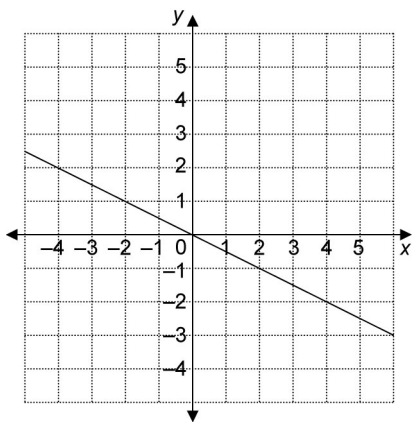


BLM Answers

- c) slope 0; y-intercept 5



- d) slope $-\frac{1}{2}$; y-intercept 0



BLM 6.2.1 Practice: The Equation of a Line in Standard Form: $Ax + By + C = 0$

- a) $t = \frac{d}{s}$ b) $s = \frac{P}{6}$

c) $P = A - I$ d) $y = 4 - x$
- a) $y = -x - 6$

b) $y = -2x$

c) $y = -5x + 3$

d) $y = -x + 1$
- a) $3y = -x - 1$; $y = -\frac{1}{3}x - \frac{1}{3}$

b) $2y = -4x - 3$; $y = -2x + \frac{3}{2}$

c) $3y = -x$; $y = -\frac{1}{3}x$

d) $y = 5x - 1$

e) $5y = 6x + 1$; $y = \frac{6}{5}x + \frac{1}{5}$

f) $2y = -4x$; $y = -2x$

- a) $y = -7x + 4$

b) $y = -\frac{3}{2}x + 4$

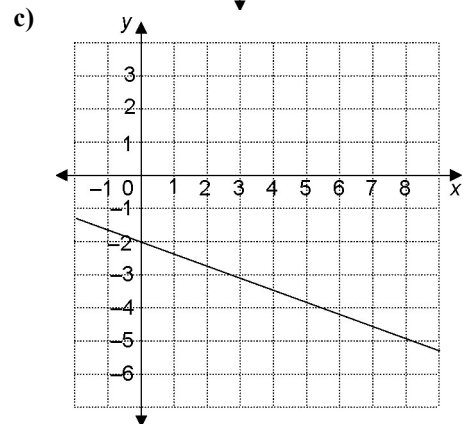
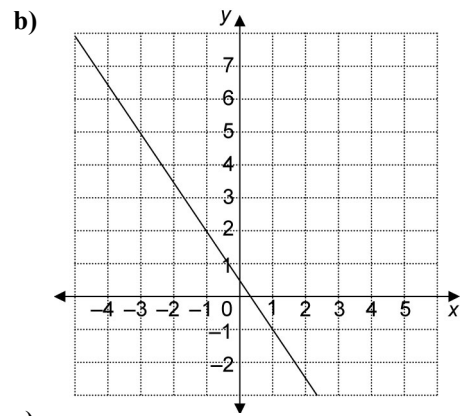
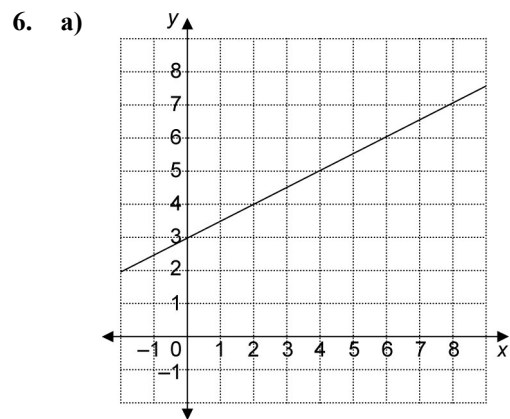
c) $y = \frac{1}{4}x - \frac{1}{2}$

d) $y = \frac{4}{3}x$
- a) $\frac{1}{2}$; 3

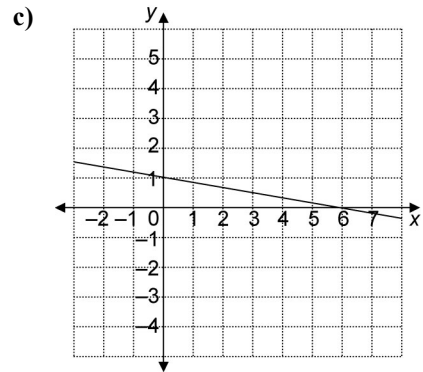
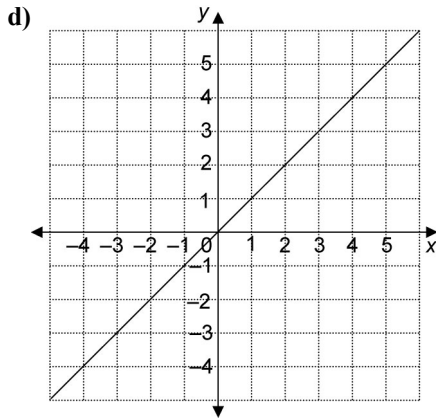
b) $-\frac{3}{2}$; $\frac{1}{2}$

c) $-\frac{8}{3}$; -2

d) 1; 0

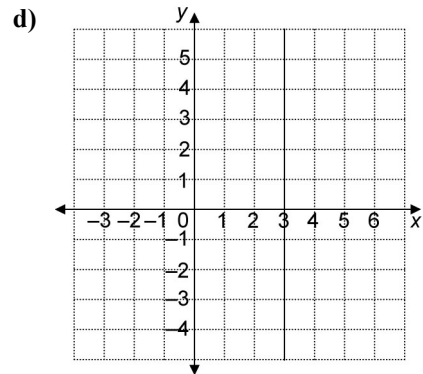
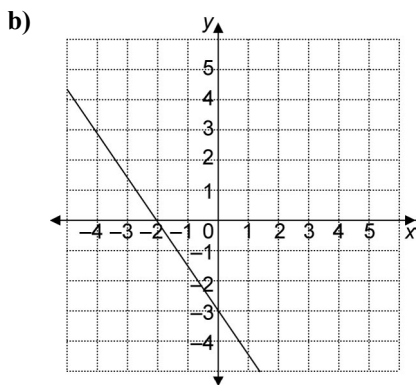
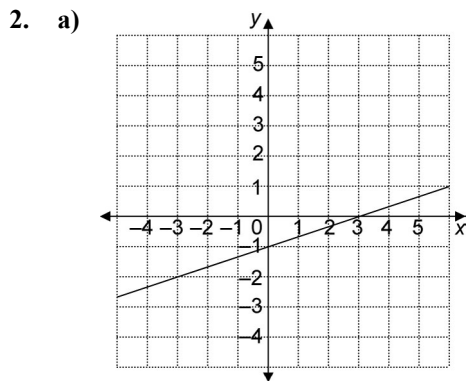


BLM Answers



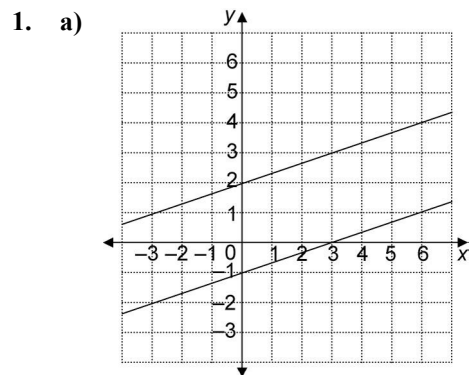
BLM 6.3.1 Practice: Graph a Line Using Intercepts

- x-intercept: 3; y-intercept: -2
 - x-intercept: -3; y-intercept: -4
 - x-intercept: 2; y-intercept: 4
 - x-intercept: -6; y-intercept: -2



- $\frac{1}{3}$
 - $-\frac{3}{2}$
 - $-\frac{1}{6}$
 - undefined
- x-intercept: $\frac{4}{3}$; y-intercept: -4
 - x-intercept: $\frac{3}{5}$; y-intercept: $\frac{3}{2}$
 - x-intercept: 6; y-intercept: 2
 - x-intercept: 3; y-intercept: $-\frac{1}{2}$

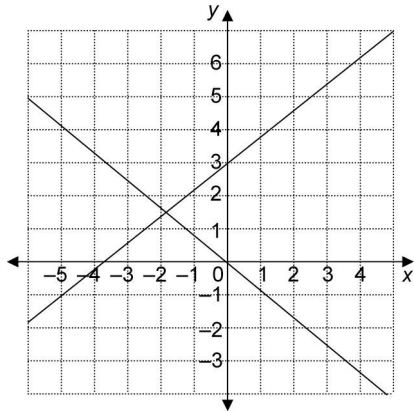
BLM 6.4.1 Practice: Parallel and Perpendicular Lines



parallel

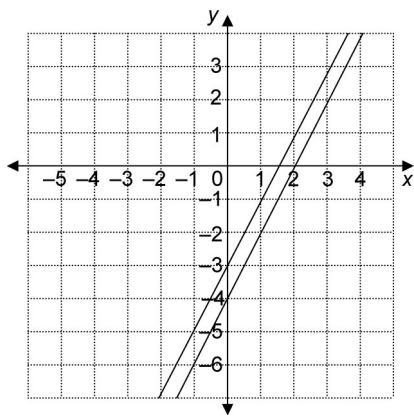
BLM Answers

b)



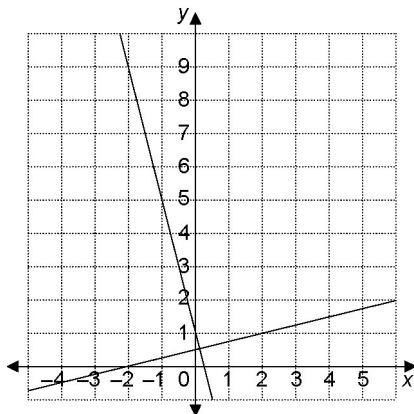
neither

c)



parallel

d)



perpendicular

2. a) neither b) perpendicular
 c) parallel d) perpendicular
 e) parallel f) neither
 g) parallel h) perpendicular

3. a) $\frac{1}{4}, \frac{1}{4}$; parallel
 b) $\frac{3}{5}, \frac{4}{5}$; neither
 c) 3, -3; neither
 d) $\frac{1}{6}, -6$; perpendicular
 e) 3, 3; parallel
 f) 1, -1; perpendicular
4. a) 2 b) -5
 c) $\frac{1}{3}$ d) 4
5. a) $-\frac{7}{3}$ b) -2
 c) $-\frac{1}{2}$ d) -2
6. Possible answer: $y = -\frac{4}{3}x + 5$
7. Possible answer: $y = -5x$

BLM 6.5.1 Practice: Find an Equation for a Line Given the Slope and a Point

1. a) $y = 5x + 2$
 b) $y = 3x - 4$
 c) $y = -2x$
 d) $y = 4x + 8$
 e) $y = -6x - 1$
 f) $y = -\frac{3}{4}x + 12$
 g) $y = \frac{2}{3}x - 5$
 h) $y = \frac{1}{5}x - 2$
2. a) $y = x + 3$
 b) $y = -x + 4$
 c) $y = 2x - 1$
 d) $y = -3x - 10$
 e) $y = \frac{1}{5}x + 2$
 f) $y = -\frac{1}{4}x - 2$
 g) $y = \frac{2}{5}x + 7$
 h) $y = \frac{1}{8}x - \frac{3}{4}$

BLM Answers

3. a) $y = 4x - 3$
 b) $y = -x + 5$
 c) $y = \frac{1}{2}x - 2$
 d) $y = 5x + 11$
 e) $y = -\frac{1}{2}x + 6$
 f) $y = -5x$
 g) $y = 2x + 7$
 h) $y = -x + 6$
4. a) $-\frac{5}{2}$
 b) 10
 c) $y = -\frac{5}{2}x + 10$

BLM 6.6.1 Practice: Find an Equation for a Line Given Two Points

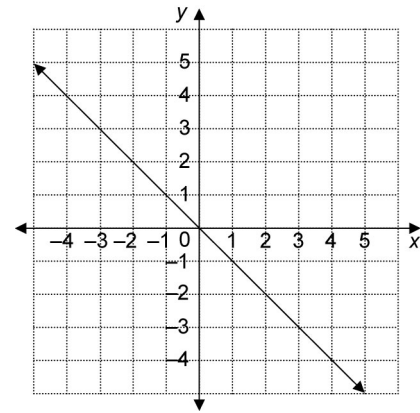
1. a) 1 b) -3
 c) $\frac{7}{8}$ d) 1
 e) -4 f) 1
 g) $-\frac{5}{3}$ h) 1
2. a) $y = \frac{1}{2}x - 3$
 b) $y = 3x + 1$
 c) $y = -2x + 6$
3. a) $y = -4x + 21$ b) $y = x - 1$
 c) $y = \frac{3}{7}x + 4$ d) $y = 6x + 19$
 e) $y = x + 1$ f) $y = -\frac{4}{3}x - 1$
 g) $y = -\frac{3}{5}x - 1$ h) $y = \frac{1}{6}x - \frac{5}{3}$
4. a) $-\frac{4}{3}$ b) $y = -\frac{4}{3}x + 4$
5. a) $\frac{3}{2}$ b) $y = \frac{3}{2}x$

BLM 6.7.2 Practice: Linear Systems

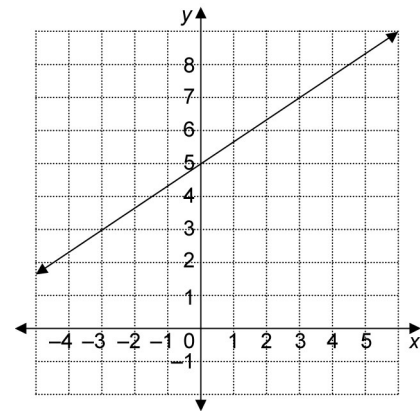
1. a) (3, 2) b) (-1, 4)
 2. a) (1, 3) b) (4, -1)
 3. a) (2, 2) b) (2, 4)
 c) (-1, 4) d) (1, 2)
 4. B
 5. C

BLM 6.CR.1 Chapter 6 Review

1. a) slope: -2; y-intercept: 6
 b) slope: $-\frac{3}{2}$; y-intercept: -3
2. a) slope: 4; y-intercept: -5
 b) slope: $-\frac{1}{6}$; y-intercept: 2
3. a) $y = -x$



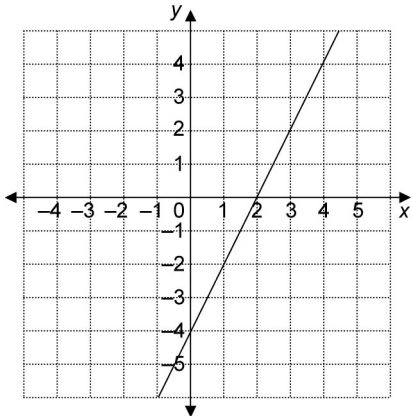
b) $y = \frac{2}{3}x + 5$



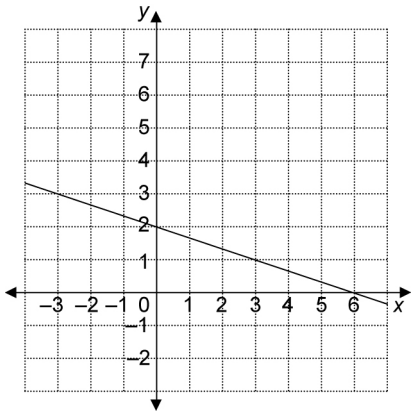
4. a) $y = 6x - 4$
 b) $y = -\frac{x}{4} + 7$
5. a) slope: -8; y-intercept: 4
 b) slope: $\frac{3}{2}$; y-intercept: 4

BLM Answers

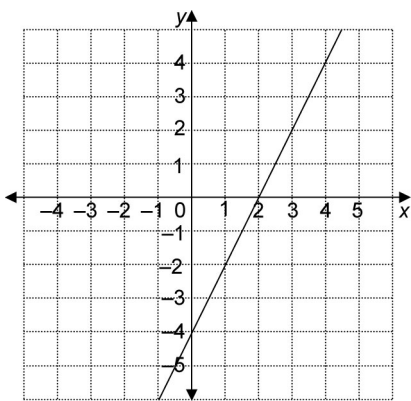
6. a) x -intercept: 2; y -intercept: -4



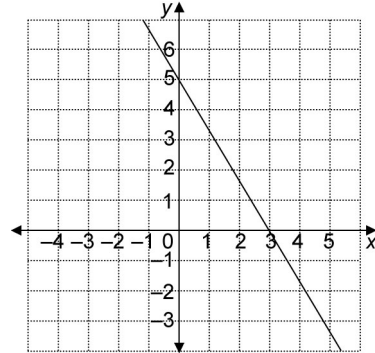
- b) x -intercept: 6; y -intercept: 2



- c) x -intercept: 2; y -intercept: -4



- d) x -intercept: 3; y -intercept: 5



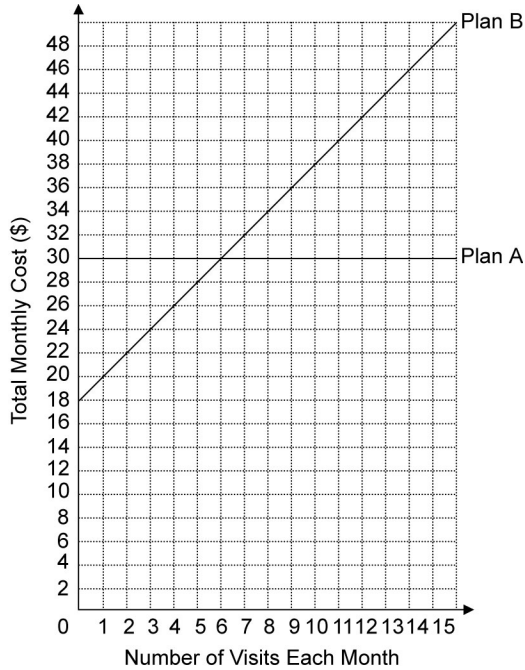
7. $2x - 3y + 12 = 0$ and $3y = 2x + 6$
8. $2x - 3y + 12 = 0$ and $3x + 2y = -4$; $3y = 2x + 6$ and $3x + 2y = -4$
9. -4
10. $y = -3x + 1$
11. $y = -\frac{2}{5}x - 2$
12. $y = -9x + 23$
13. a) -1.1
b) $d = -1.1t + 5$
c) About 4.5 s
14. (1, 1)
15. (2, 4)

BLM 6.PT.1 Chapter 6 Practice Test

1. D
2. A
3. D
4. A
5. B
6. $y = \frac{1}{2}x + 2$
7. a) slope: -1.2 ; d -intercept: 12
b) $d = -1.2t + 12$
8. a) $y = -x + 4$
b) $y = -\frac{3}{5}x + 9$
9. $y = 3x + 4$

BLM Answers

10. a)



When you make 6 visits per month, the cost for both plans is \$30.

- b) I would choose Plan A if I go to the gym more than 6 times each month. If I thought I would go fewer than 6 times per month, I would choose Plan B (or not get a membership!).

BLM 6.CT.1 Chapter 6 Test

1. D
2. D
3. B
4. D
5. C

6. $y = -4x - \frac{11}{2}$

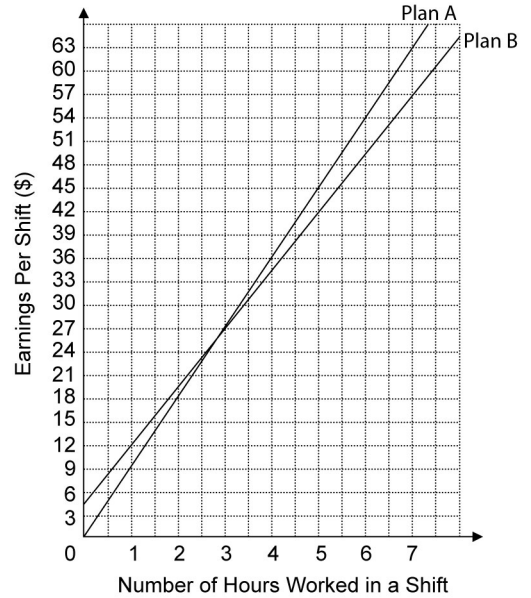
7. a) 3 m
- b) Away; approximately 2.1 m/s
- c) $d = 2.1t + 3$

8. a) $y = 6x + 10$

b) $y = \frac{3}{5}x + 3$

9. $y = -\frac{5}{2}x + 3$

10. a)



The earnings per shift under both plans are \$27 when you work 3 h.

- b) I would choose Plan A if I usually work more than 3 h each shift. If I work fewer than 3 h per shift, I would choose Plan B.