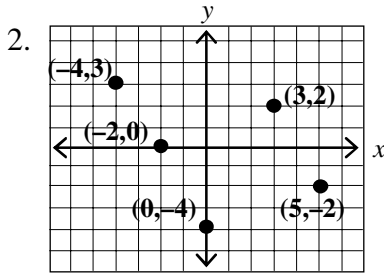


**CHAPTER 4, FORM A**

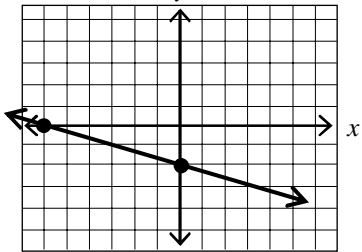
1. A(-2, -4), B(-4, 0),  
C(1, 4), D(4, 1), E(5, -3)



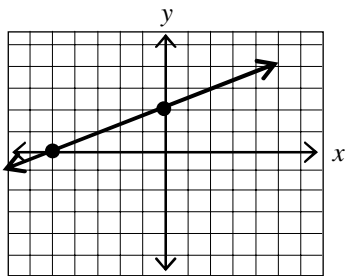
3. Quadrant III

4. Yes

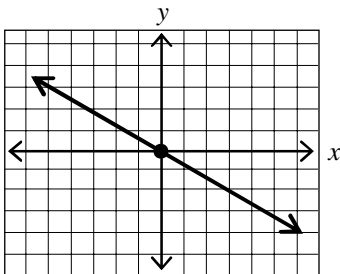
5. (-6, 0), (0, -2)



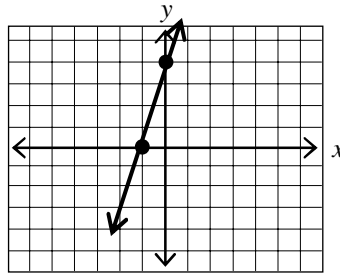
6. (-5, 0), (0, 2)



7. (0, 0)



8. (0, 4), (-1, 0)



9.  $m = \frac{2}{5}$ ; (0, 3)

10.  $m = \frac{1}{2}$ ; (0, -2)

11.  $-\frac{1}{3}$

12.  $-\frac{5}{4}$

13.  $y = \frac{2}{3}x - 3$

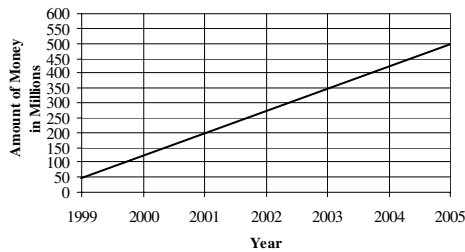
14.  $y = 2x - 1$

15.  $x - y = -3$

16.  $2x - y = 14$

17. a)

Money Spent on Exercise Equipment



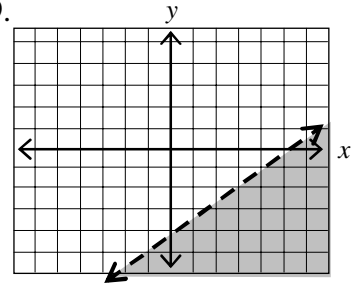
- b)  $m = 75$

- c)  $y = 75x + 50$

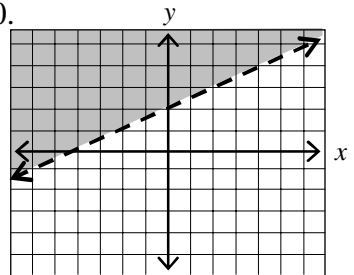
- d) \$425 million

18. Yes

- 19.

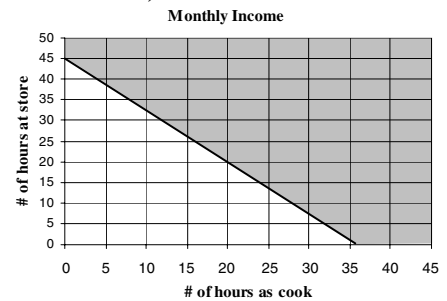


- 20.



21. a)  $10x + 8y \geq 360$

- b)



- c) Answers may vary.

One possible answer is (0, 45).

- d) Answers may vary.

One possible answer is (20, 30).

22. No

23. Yes

24. a)  $\frac{3}{2}$

- b) 0

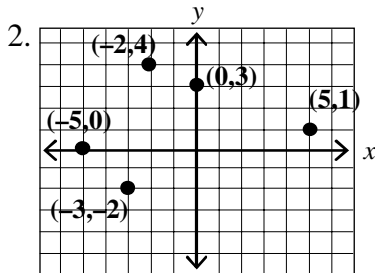
- c) Undefined

25. Domain:  $\{x \mid x \geq 0\}$

Range:  $\{0 \leq y \leq 4\}$

**CHAPTER 4, FORM B**

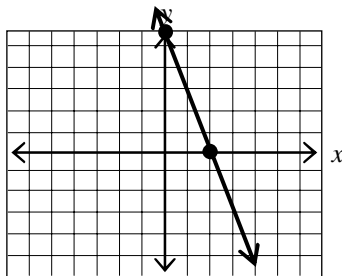
1. A (-5, -1), B (-2, 4),  
C (5, 2), D (3, 0), E (0, -5)



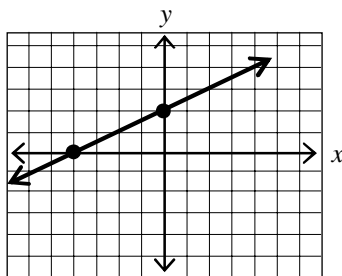
3. Quadrant II

4. No

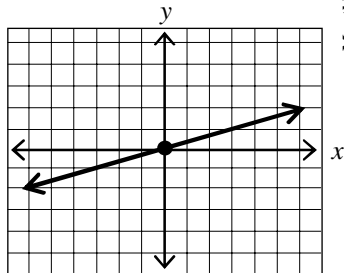
5. (2, 0), (0, 6)



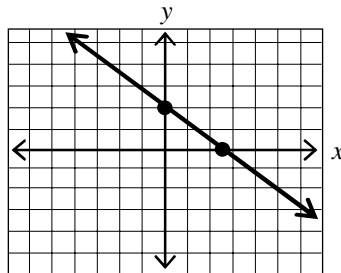
6. (-4, 0), (0, 2)



7. (0, 0)



8.  $(0, 2), \left(\frac{8}{3}, 0\right)$



9.  $m = \frac{3}{5}; (0, -7)$

10.  $m = \frac{3}{2}; (0, -3)$

11.  $\frac{1}{2}$

12.  $-\frac{5}{3}$

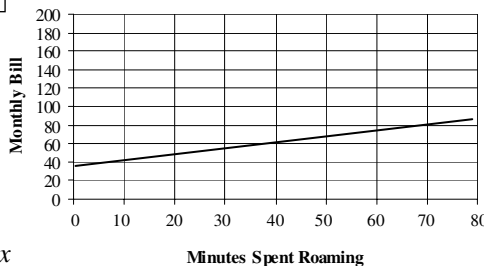
13.  $y = \frac{4}{3}x - 2$

14.  $y = -\frac{3}{2}x - 6$

15.  $x - 3y = -15$

16.  $x + 2y = -8$

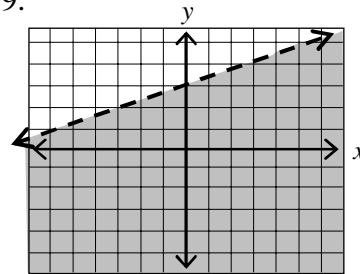
17. **Monthly Cell Phone Bill**



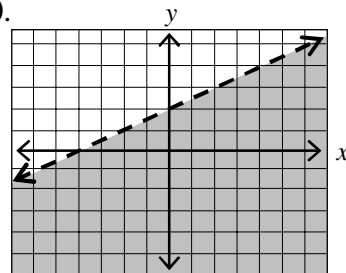
- b)  $y = 0.7x + 35$   
c)  $m = 0.7$   
d) \$63

18. Yes

- 19.

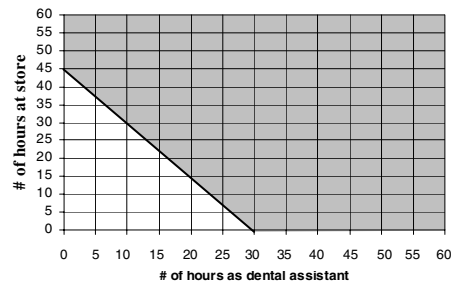


- 20.



21. a)  $12x + 8y \geq 360$

- b) **Monthly Income**



- c) Answers may vary.  
One possible answer is (0, 45).

- d) Answers may vary.  
One possible answer is (30, 10).

22. Yes

23. No

24. a) 3

- b) 0

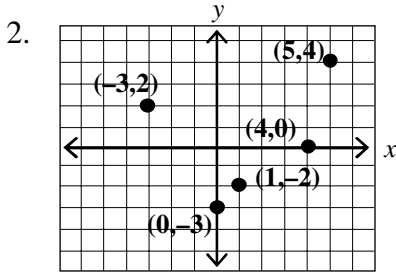
- c) 6

25. Domain:  $\{x \mid x \text{ is a real number}\}$

- Range:  $\{y \mid y \text{ is a real number}\}$

**CHAPTER 4, FORM C**

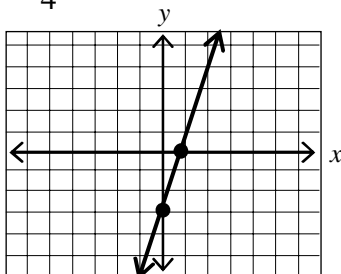
1. A (-4, 2), B (2, 4), C (4, 0),  
D (1, -4), E (-2, 0)



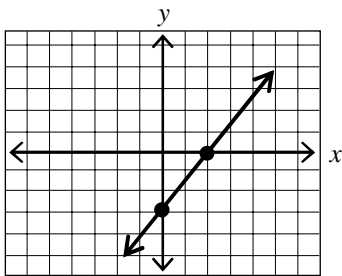
3. III

4. Yes

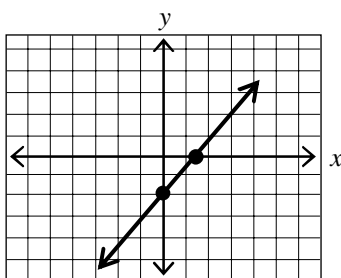
5.  $(\frac{3}{4}, 0)$ ,  $(0, -3)$



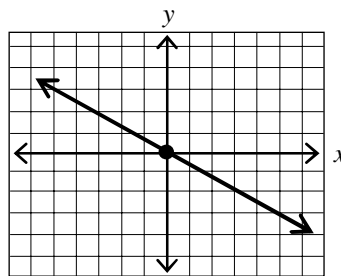
6.  $(0, -3)$ ,  $(2, 0)$



7.  $(0, -2)$ ,  $(\frac{3}{2}, 0)$



8.  $(0, 0)$



9.  $m = -\frac{3}{5}$ ;  $(0, -7)$

10.  $m = \frac{3}{4}$ ;  $(0, -4)$

11. 4

12.  $\frac{1}{8}$

13.  $y = \frac{4}{3}x - 5$

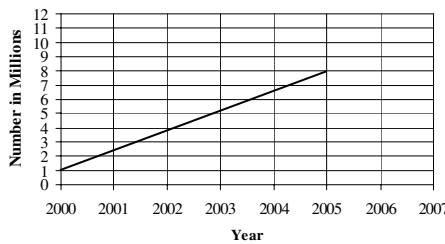
14.  $y = -\frac{1}{4}x - \frac{9}{2}$

15.  $x + 2y = -13$

16.  $3x - y = -4$

- 17.

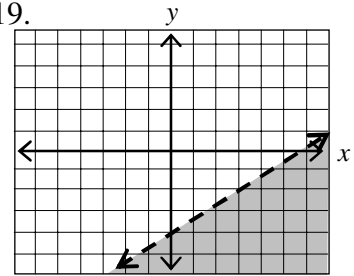
Attendance at a Theme Park



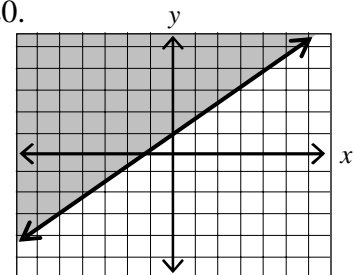
- b)  $y = 1.5x + 1.2$   
c)  $m = 1.5$   
d) \$11.7 million

18. No

- 19.



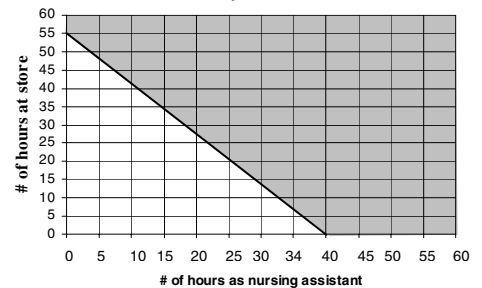
- 20.



21. a)  $11x + 8y \geq 440$

- b)

Monthly Income



- c) Answers may vary.  
One possible answer is  $(0, 55)$ .

- d) Answers may vary.  
One possible answer is  $(30, 20)$ .

22. Yes

23. Yes

24. a)  $\frac{1}{2}$

- b) 0

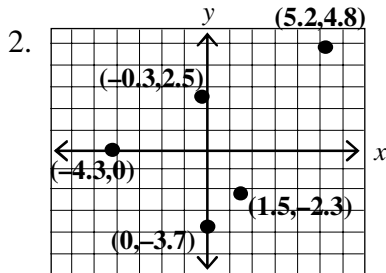
- c) -2

25. Domain:  $\{x \mid x \geq -3\}$

- Range:  $\{y \mid y \geq 0\}$

**CHAPTER 4, FORM D**

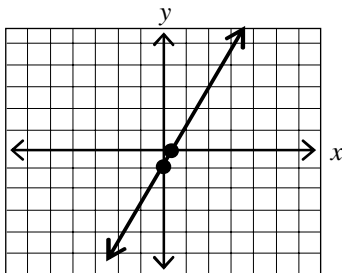
1. A(2, -2), B(2, 3),  
C(-5, -1), D(1, -5),  
E(-3, 0)



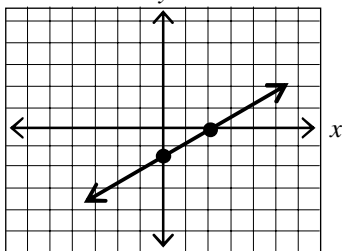
3. On the  $x$ -axis

4. Yes

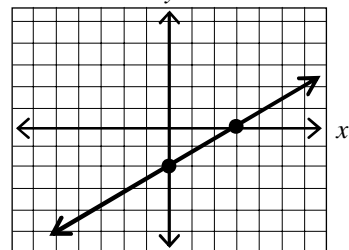
5.  $(\frac{1}{3}, 0), (0, -1)$



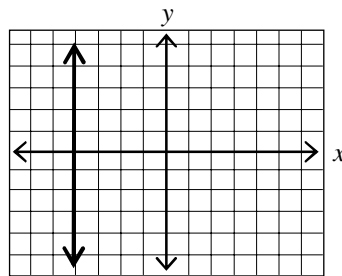
6.  $(2, 0), (0, -\frac{3}{2})$



7.  $(3, 0), (0, 2)$



8.  $(-4, 0)$ ,



9.  $m = -\frac{3}{4}; (0, \frac{4}{7})$

10.  $m = -\frac{4}{3}; (0, 2)$

11.  $-\frac{3}{4}$

12. 0

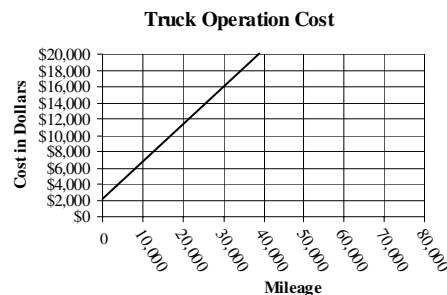
13.  $y = -\frac{2}{3}x - 5$

14.  $y = -\frac{7}{2}x + \frac{3}{2}$

15.  $x - 2y = 1$

16.  $3x - 2y = 1$

17. a)

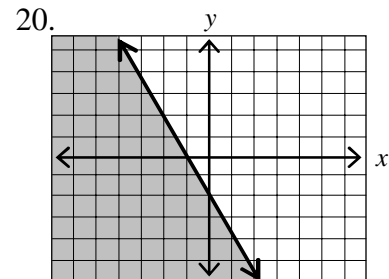
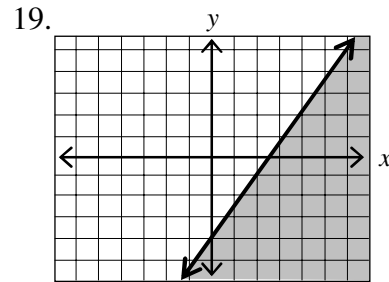


- b)  $m = 75$

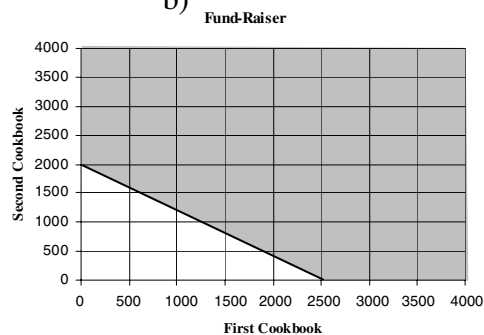
- c)  $y = 75x + 50$

- d) \$425 million

18. Yes



21. a)  $8x + 10y \geq 24,000$   
b)



- c) Answers may vary.  
One possible answer is  $(0, 2400)$ .

- d) Answers may vary.  
One possible answer is  $(1000, 2500)$ .

22. No

23. Yes

24. a) 0

- b) 2

- c)  $\sqrt{7}$

25. Domain:  $\{x \mid x \geq 0\}$   
Range:  $\{y \mid y \geq 0\}$

**CHAPTER TEST 4, FORM E**

- |      |       |       |
|------|-------|-------|
| 1. a | 10. d | 19. c |
| 2. d | 11. b | 20. a |
| 3. d | 12. a | 21. b |
| 4. c | 13. c | 22. b |
| 5. b | 14. d | 23. c |
| 6. c | 15. b | 24. c |
| 7. a | 16. b | 25. b |
| 8. b | 17. a |       |
| 9. c | 18. d |       |
-