

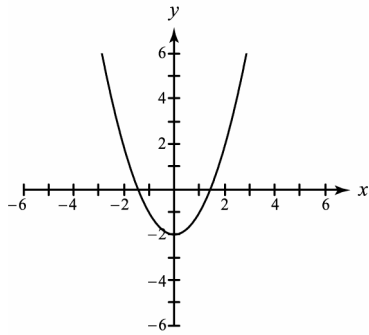
**Chapter 2, Test Form A**

1.  $-8$

2.  $S(x) = 60x; S(4) = 240$

There are 240 seconds in 4 minutes.

3.



4.  $2$

5. Domain: All real numbers

Range:  $y \geq -4$ 

6.  $f(x) = x^2 + 3$

7. no

8. All real numbers

9.  $m = 3; y\text{-int: } -\frac{5}{2} \text{ or } \left(0, -\frac{5}{2}\right)$

10.  $2$

11.  $-\frac{3}{2}$

12.  $y = \frac{3}{4}x + \frac{3}{2}$

13.  $y = 4x - 1$

14.  $3$

15.  $x$ -intercept:  $2$  or  $(2, 0)$  $y$ -intercept:  $4$  or  $(0, 4)$ 

16.  $y = -4x + 3$

17.  $y = \frac{1}{3}x - 4$

18.  $y = -3x$

19.  $x = \frac{1}{2}$

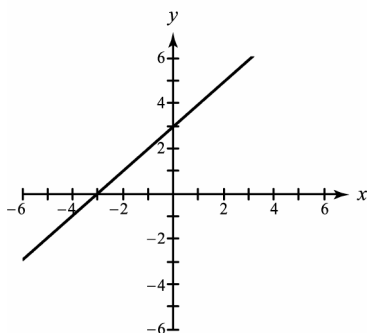
20.  $y = 1$

**Chapter 2, Test Form B**

1. 7

2.  $C(x) = 2.50x$ ;  $C(10) = 25$   
10 gallons of gasoline cost \$25.

3.



4. 0

5. Domain: All real numbers  
Range:  $y = -3$

6.  $f(x) = x^3 - 4$ 

7. no

8.  $x \geq 5$ 9.  $m = 2$ ; y-int: -3 or  $(0, -3)$ 

10. 4

11.  $\frac{1}{3}$ 12.  $y = \frac{5}{3}x + \frac{5}{3}$ 13.  $y = 3x - \frac{5}{2}$ 

14. -1

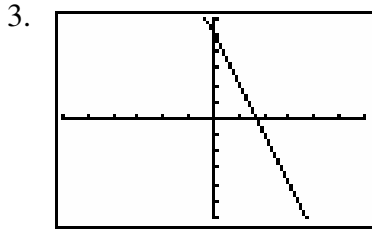
15. x-intercept: 1 or  $(1, 0)$   
y-intercept: 3 or  $(0, 3)$

16.  $y = \frac{5}{3}x - 12$ 17.  $y = -2x + 2$ 18.  $y = \frac{1}{2}x$ 19.  $x = -\frac{2}{3}$ 20.  $y = -\frac{1}{2}$

**Chapter 2, Test Form C**

1. 24 years

2. \$132,368



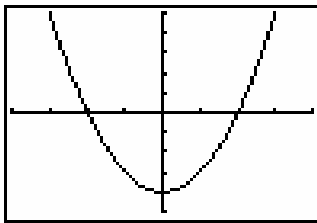
4. 120 miles

5. Domain: All real numbers  
Range:  $y \geq -4$

6.  $f(x) = x^2 - 4$

X	Y
5	21
4	12
3	5
2	0
1	-3
0	-4
-1	-3
-2	0
-3	5
-4	12
-5	21

$Y_1 = X^2 - 4$



7. yes

8. All real numbers

9. (a)  $m = 0.39$

The slope represents the cost of \$0.39 a mile for gasoline, oil, and maintenance.

(b) y-int: 395 or (0,395)

The y-intercept represents fixed costs of \$395 per month for insurance and car payments.

10. \$188

11. 50 gallons per hour

12.  $y = 2x - 2.58$

13.  $y = 1.1x + 24.8$

14.  $\frac{9}{5}$  or 1.8

15. (a) y-intercept: 32 or (0,32)

(b) The y-intercept represents the Fahrenheit equivalent when the temperature is 0° Celsius.

16.  $y = 1.28x + 0.61$

17.  $y = -\frac{2}{3}x - 1$

18.  $y = \frac{3}{2}x$

19.  $y = -2$

20. 2.4 million or 2,400,000

**Chapter 2, Test Form D**

- |        |         |         |         |
|--------|---------|---------|---------|
| 1. (b) | 6. (b)  | 11. (c) | 16. (a) |
| 2. (a) | 7. (b)  | 12. (c) | 17. (d) |
| 3. (c) | 8. (a)  | 13. (c) | 18. (b) |
| 4. (d) | 9. (d)  | 14. (a) | 19. (b) |
| 5. (c) | 10. (b) | 15. (d) | 20. (a) |