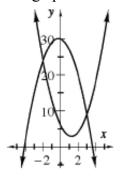
Lesson 1.1.4

1-42. See below:

a. See graph below.



- b. Estimates vary.
- c. Estimates vary.
- d. The [CALC] feature gives (-2, 24) and (3, 9), which are exactly correct.

1-43. See below:

- a. For a point of intersection, the same x and y pair will appear in each function's table.
- b. Tables shown below.

х	f(x)
-4	58
-3	39
-2	24
-l	13
0	6
1	3
2	4
3	9
4	18

х	g(x)
-4	2
-3	15
-2	24
-1	29
0	30
1	27
2	20
3	9
4	-6

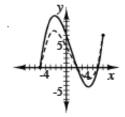
- c. The points (-2, 24) and (3, 9) appear in both tables.
- d. If the points of intersection occurred between the values shown in the table, they would not be evident.

1-44. See below:

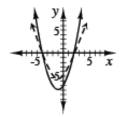
- a. Solving the system of equations algebraically.
- b. The points of intersection are (-2, 24) and (3, 9).

1-45. See below:

a. More than one function is possible. See sample graph below.



b. More than one function is possible. See sample graph below.





1-46. (2, 1)

1-47. See below:

- a. 2
- b. 10
- c. 100
- d. ≈ 142.86

1-48. See below:

a. x = 5, 3

b.
$$x \approx 3.39, -0.89 \text{ or } x = \frac{5 \pm \sqrt{73}}{4}$$

1-49. See below:

- a. $\sqrt{34} \approx 5.83$ units
- b. $\frac{3}{5}$

1-50. See below:

- a. $\frac{1}{52}$
- b. $\frac{51}{52}$
- **1-51.** The error is in line 3. It should be: 0 = 5.4x + 23.7, $x \approx -4.39$.

1-52. See below:

- a. $x \approx -7.37$
- b. x = 2.8