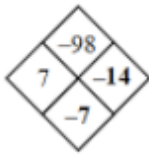


Lesson 1.2.1 Problems 1-33 thru 1-42

1-33. See answers in bold in diamonds below:

a.



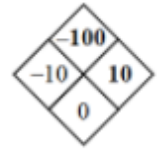
b.



c.



d.



1-34. See below:

- a. 2
- b. 30
- c. 13
- d. 7

1-35. See below:

- a. 4
- b. 2
- c. -2
- d. 5

Lesson 1.2.1 Problems 1-33 thru 1-42

1-36. See below:

a. $x = -\frac{2}{9}$

b. no solution

c. $x = \frac{3}{11}$

d. $x = 0$

1-37. See below:

a.



Figure 0

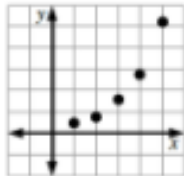


Figure 4

b. 51 tiles. Add 5 tiles to get the next figure.

1-38. See below:

a. See graph below.



b. The graph is a curve, going up. As x increases, y increases.

c. Possible answers: max = 10 feet (the highest she can jump), min = 0 feet

d. exponential

Lesson 1.2.1 Problems 1-33 thru 1-42

1-39. See below:

- a. 1
- b. 0
- c. 2
- d. 7

1-40. See below:

- a. $x = 2$
- b. $x = -7$
- c. $x = -3$
- d. $x = 1$

1-41. See below:

- a. $y = 5$
- b. $y = -3$
- c. $y = 11$

1-42. The graph is a parabola opening up. The vertex is at $(-4, -9)$ and is a minimum. It has a vertical line of symmetry through the vertex. The x -intercepts are $(-7, 0)$ and $(-1, 0)$. The y -intercept is $(0, 7)$.