

Lesson 1.2.5

1-78. See below:

- a. Not a function because more than one y -value is assigned for x between -1 and 1 inclusive
- b. Appears to be a function
- c. Not a function because there are two different y -values for $x = 7$
- d. Function

1-79. See below:

- a. x -intercepts $(-1, 0)$ and $(1, 0)$, y -intercepts $(0, -1)$ and $(0, 4)$
- b. x -intercept $(19, 0)$, y -intercept $(0, -3)$
- c. x -intercepts $(-2, 0)$ and $(4, 0)$, y -intercept $(0, 10)$
- d. x -intercepts $(-1, 0)$ and $(1, 0)$, y -intercept $(0, -1)$

1-80. See below:

- a. 2
- b. 53

1-81. See below:

- a. yes
- b. $-6 \leq x \leq 6$
- c. $-4 \leq y \leq 4$

1-82. See below:

- a. $x = -8$
- b. $x = 144$
- c. $x = 3$ or $x = -5$