DIRECTIONS

Answers without work to check. If you cannot find your mistake then please seek help EARLY! This assignment is worth 4 pts. 1) did you complete it 2) did you show all the work 3) did you correct in pen 4) did you get 75% of the problems correct?

MCR pg. 128 answers. Check the ones you were supposed to do for your assignment. Ask questions on any in class that you cannot figure out your mistake. Remember odd answers are always in the back of your textbook.

1. function; Each input has exactly one output.

2. not a function; The input -10 has two outputs, 2 and 6, and the input -8 has two outputs, 3 and 8.

3. domain: 0, 1, 2, 3, 4; range: $-5, -3, -1, 1$

4. domain: all real numbers; range: $y \le 3$

5. domain: $-3 \le x \le 3$; range: $-1 \le y \le 3$

6. linear; The graph is a line.

7. nonlinear; As x increases by 5, y increases by different amounts. The rate of change is not constant.
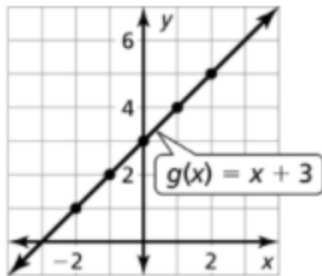
8. nonlinear; It cannot be written in the form $y = mx + b$.

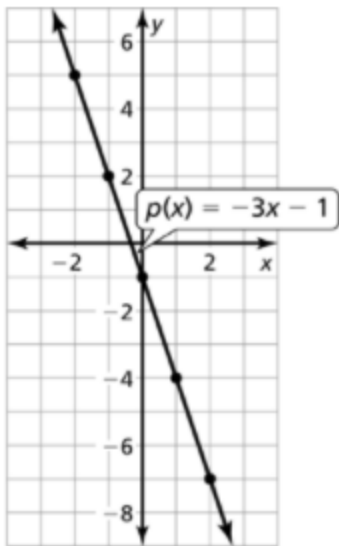**9.** continuous; The depth can be any number of feet.

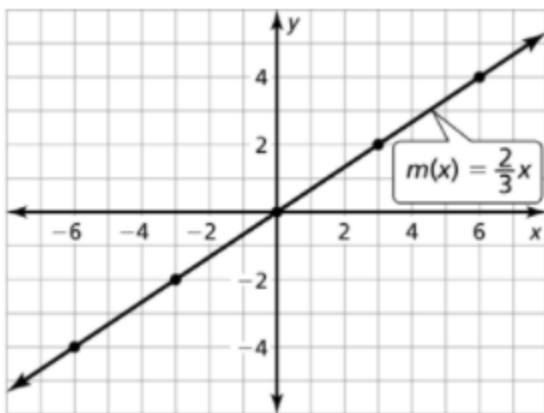**10.** discrete; The number of hats must be a whole number.

11. $x = 5$

12.

13.

$p(x) = -3x - 1$
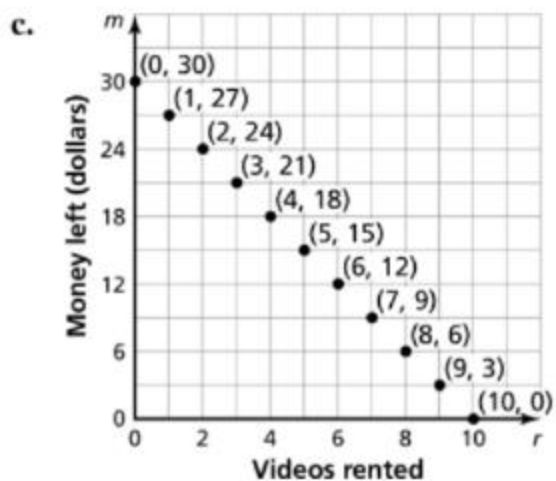
14.

$m(x) = \frac{2}{3}x$

15. a. *m* is the dependent variable and *r* is the independent variable.

   b. domain: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10; range: 0, 3, 6, 9, 12, 15, 18, 21, 24, 27, 30; discrete; The number of video games rented must be a whole number.

   c.

16. a. 495 mi

   b. 12.5 h