## **3.3 Part B Writing and Evaluating Functions**

Name:\_\_\_\_\_

Hour:\_\_\_\_\_

Identify each of the following functions as linear or quadratic based on its table. If linear, write an equation that represents that function.

1.

x	-3	-2	-1	0	1	2	3
y	14	10	6	2	-2	-6	-10

4.

7	•							
	x	-3	-2	-1	0	1	2	3
	y	-14	-9	-4	1	6	11	16

2.

)	ĸ	-3	-2	-1	0	1	2	3
3	v	21	12	5	0	-3	-4	-3

5.

x	-3	-2	-1	0	1	2	3
y	-18	-6	-2	0	2	6	18

3.

x	-3	-2	-1	0	1	2	3
y	-16	-13	-10	<b>-7</b>	-4	-1	2

6.

x	-3	-2	-1	0	1	2	3
y	<b>3</b> 0	20	12	6	2	0	0

x	-3	-2	-1	0	1	2	3
y	11	9	7	5	3	1	-1

10. 
$$g(x) = \frac{3}{x+5}$$

$$11. f(x) = \sqrt{x+5}$$

8.

x	-3	-2	-1	0	1	2	3
y	0	5	8	9	8	5	0

12. 
$$f(x) = x^2 + 16$$

$$13. f(x) = \frac{4x}{x+8}$$

9.

х	;	-3	-2	-1	0	1	2	3
y	,	3	0	-1	0	3	8	15

14. 
$$f(x) = x^2 + 3$$

15. 
$$f(x) = \frac{3-x}{x-2}$$

16. 
$$g(x) = \sqrt{x - 7}$$

$$17. g(x) = \sqrt{x}$$