

## Day 1 – Tables Practice

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

## Practice Assignment

Determine if each sets of ordered pairs or tables represent a linear, quadratic or exponential function and justify why:

1.

Weeks	0	1	2	3
Account Balance (\$)	425	375	325	255

2.

Time (h)	0	1	2	3
Bacteria	10	20	40	80

3.

Height of Bridge Suspension Cables	
Cable's Distance from Tower (ft)	Cable's Height (ft)
0	400
100	256
200	144
300	64

4.

Ladybug Population	
Time (mo)	Ladybugs
0	10
1	30
2	90
3	270

5.

 $\{(-4, 0), (-3, -5), (-2, -8), (-1, -9), (0, -8), (1, -5)\}$ 

6.

 $\{(-2, 8), (-1, 4), (0, 2), (1, 1), (2, 0.5)\}$

Directions: Identify the type of function. Then write an equation (regression) that represents each linear, quadratic, or exponential function. You must write all quadratic functions in standard form ( $y = ax^2 + bx + c$ ).

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

1. Type: \_\_\_\_\_

Equation: \_\_\_\_\_

x	-3	-2	-1	0	1	2	3
y	$\frac{1}{2}$	1	2	4	8	16	32

2. Type: \_\_\_\_\_

Equation: \_\_\_\_\_

x	2	4	6	8	10
y	4	-5	-8	-5	4

5. Type: \_\_\_\_\_

Equation: \_\_\_\_\_

x	0	1	2	3	4
y	27	9	3	1	$\frac{1}{3}$

6. Type: \_\_\_\_\_

Equation: \_\_\_\_\_