Unit 3 Day 2 HW   Name: _____

Directions:
A. Graph each function on a separate sheet of paper.
B. Determine if the function is linear or quadratic.
C. For the six quadratic functions, identify the second difference, vertex and state max or min, increasing and decreasing interval, range, y-intercept, x-intercept(s), and domain. **This should be done on your graph paper from Part A.**

Unit 3 Day 3 HW

Write an equation for each table in slope-intercept form for linear equations $(f(x) = mx + b)$ and standard form for quadratic equations $(f(x) = ax^2 + bx + c)$.

1.

x	$f(x)$
-1	16
0	18
1	16
2	10
3	0

2.

x	$f(x)$
-3	-23
-2	-17
-1	-11
0	-5
1	1

3.

x	$f(x)$
1	3
2	0
3	3
4	12
5	27

4.

x	$f(x)$
1	23
2	37
3	55
4	77
5	103

5.

x	$f(x)$
-2	4
-1	2
0	0
1	-2
2	-4

6.

x	$f(x)$
0	16
1	15
2	12
3	7
4	0

7.

x	$f(x)$
-4	-5
-3	0
-2	15
-1	40
0	75

8.

x	$f(x)$
-1	4
0	0
1	-12
2	-32
3	-60

9.

x	$f(x)$
2	10
3	13
4	16
5	19
6	22