NAME: $\qquad$ PERIOD: $\qquad$ DATE: $\qquad$

## Homework Problem Set

1. Give at least one reason the following two parabolas could be grouped together.


2. Give at least one reason the following two quadratic equations could be grouped together.

$$
\begin{aligned}
y=-2(x-1)^{2} & +3 \\
& \text { Both have coefficients in } \\
& \text { front of parentheses }
\end{aligned}
$$

- Both shift yp $\rightarrow$ something added after ()

3. The parent graph, $y=x^{2}$, is the most basic quadratic there is. Complete the table for this function and graph the points on the grid at the right.

| $x$ | $y$ |
| :---: | :---: |
| -3 | 9 |
| -2 | 4 |
| -1 | 1 |
| 0 | 0 |


| $x$ | $y$ |
| :---: | :---: |
| 1 | 1 |
| 2 | 4 |
| 3 | 9 |



## Spiral REVIEW-Function Notation

Determine each of the following from the graph, table and equation.


