4.1 to post and fill

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4.1 Properties of a Quadratic Function
$f(x)$ is function notation
$f(x)=a x^{2}+b x+c, a \neq 0 a, b, c \in \mathfrak{R}$, is the general form of a quadratic function. The word quadratic comes from the Latin "quadratum" meaning square. The degree is two because the highest power is two. The graph is a parabola.

Graph $y=x^{2}$ on the graph provided by completing the table of values.


| $\mathbf{x}$ | $\mathbf{y}$ |
| :---: | :---: |
| 0 | 0 |
| 1 | 1 |
| -1 | 1 |
| 2 | 4 |
| -2 | 4 |
| 3 | 9 |
| -3 | 9 |
| 4 | 16 |
| -4 | 16 |



