Algebra II Lesson 2-6: Families of Functions Mrs. Snow, Instructor

Last section we studied the absolute value function. We saw that the general form of an absolute value function is, y = |x|, then we saw that this v-shaped function could be translated up, down, left, right, and even made skinnier or wider. This brings us to today's lesson. Our equation y = |x| is called a **parent function**. It is the simplest form of a given function with a certain set of **diagnostic characteristics**. Here the diagnostic characteristic of an absolute value function is the tell-tale v-shape graph.

When numbers are placed inside or outside of the absolute value function we learned that these cause a shift of the **V**. These shifts are known as **translations.**



