Basic Graphing Review – Know these base functions and their graphs so you are able to apply transformations on them in the course.

- Label the *x* and *y* axis
- Make a table of values
- Plot the point on your grid
- Draw a line or smooth curve
- Domain: the set of *x* values valid in the equation
- Range: the set of *y* values valid in the equation

Use Set Notation for writing domain and range: $\{x \mid x \in R\}$ means x is in the set of real numbers

 $\{y \mid y \in R\}$ means y is in the set of real numbers

Use the following symbols:

- \leq for less than and equal to; < for only less than
- \geq for greater than and equal to: > for only greater than
- \neq for not equal to

When graphing, start with a table of values. Look at restrictions and use your graphing calc to verify.





4. Graph: $y = x^3$





5. Graph: y = |x|



6. This is the graph of y = f(x). List 4 or 5 points on this graph in the table of values.

