#  Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# Pre-Calculus Chapter 1 Library of Functions

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Parent Function/Reference Points | Graph | Name/Type | General Equation | Domain/Range |
|  |  | Constant |  | D: R: c |
| (0, 0)(1, 1)(-1, -1) |  | Linear |  | D: R:  |
| (0, 0)(1, 1)(-1, 1) |  | Quadratic | Vertex form: | D: R:  |
| (0, 0)(1, 1)(4, 2) |  | Square Root |  | D: R:  |
| (0, 0)(1, 1)(-1, -1) |  | Cubic | Other form; | D: R:  |
| (0, 0)(1, 1)(-1, -1) |  | Cube Root |  | D: R:  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Parent Function/Reference Points | Graph | Name/Type | General Equation | Domain/Range |
| (0, 0)(1, 1)(-1, -1) |  | Reciprocal |  | D: R:  |
| (0, 0)(1, 1)(-1, 1) |  | Absolute Value |  | D: R:  |
| (0, 1)(1, a) |  | ExponentialBase a |   | D: R:  |
| (0, 1)(1, *e*) |  | ExponentialBase *e* |  | D: R:  |
| (1, 0)(a, 1) |  | LogarithmicBase *a*(Common Log is base 10) |  | D: R:  |
| (1, 0)(*e*, 1) |  | Natural LogBase *e* |  | D: R:  |