# 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) |  | Exponential  Base a |  | D:  R: |
| (0, 1)  (1, *e*) |  | Exponential  Base *e* |  | D:  R: |
| (1, 0)  (a, 1) |  | Logarithmic  Base *a*  (Common Log is base 10) |  | D:  R: |
| (1, 0)  (*e*, 1) |  | Natural Log  Base *e* |  | D:  R: |