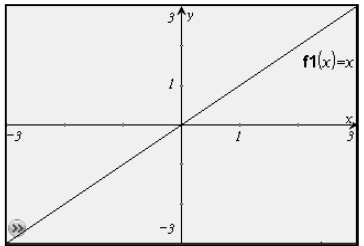
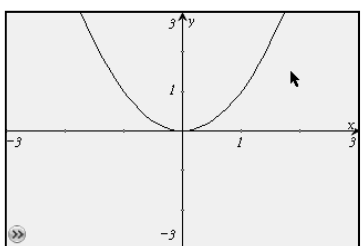
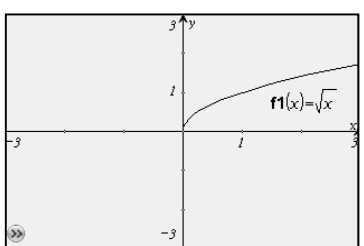
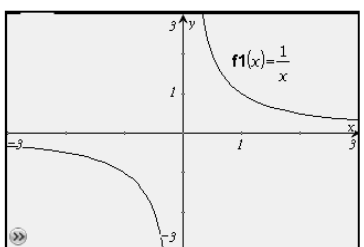
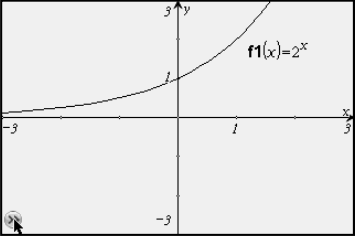
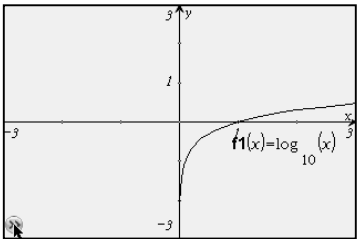
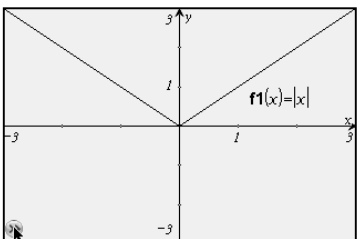


KEY to Chart of Parent Functions with their Graphs, Tables, and Equations

Name of Parent Function	Graph of Function	Table of Values	Equation of Parent Function	Special Features or Characteristics														
Linear Function		<table border="1"> <thead> <tr> <th>x</th> <th>y</th> </tr> </thead> <tbody> <tr><td>-2</td><td>-2</td></tr> <tr><td>-1</td><td>-1</td></tr> <tr><td>0</td><td>0</td></tr> <tr><td>1</td><td>1</td></tr> <tr><td>2</td><td>2</td></tr> <tr><td>3</td><td>3</td></tr> </tbody> </table>	x	y	-2	-2	-1	-1	0	0	1	1	2	2	3	3	$f(x) = x$	<ul style="list-style-type: none"> • Line intersects the y-axis at (0,0) • Domain is all Real Numbers • Range is all Real Numbers
x	y																	
-2	-2																	
-1	-1																	
0	0																	
1	1																	
2	2																	
3	3																	
Quadratic Function		<table border="1"> <thead> <tr> <th>x</th> <th>y</th> </tr> </thead> <tbody> <tr><td>-2</td><td>4</td></tr> <tr><td>-1</td><td>1</td></tr> <tr><td>0</td><td>0</td></tr> <tr><td>1</td><td>1</td></tr> <tr><td>2</td><td>4</td></tr> <tr><td>3</td><td>9</td></tr> </tbody> </table>	x	y	-2	4	-1	1	0	0	1	1	2	4	3	9	$f(x) = x^2$	<ul style="list-style-type: none"> • Graph intersects the y-axis at (0,0) • Domain is all Real Numbers • Range is all Real Numbers ≥ 0
x	y																	
-2	4																	
-1	1																	
0	0																	
1	1																	
2	4																	
3	9																	
Square Root Function		<table border="1"> <thead> <tr> <th>x</th> <th>y</th> </tr> </thead> <tbody> <tr><td>-2</td><td>err</td></tr> <tr><td>-1</td><td>err</td></tr> <tr><td>0</td><td>0</td></tr> <tr><td>1</td><td>1</td></tr> <tr><td>2</td><td>1.414</td></tr> <tr><td>3</td><td>1.732</td></tr> </tbody> </table>	x	y	-2	err	-1	err	0	0	1	1	2	1.414	3	1.732	$f(x) = \sqrt{x}$	<ul style="list-style-type: none"> • Line intersects the y-axis at (0,0) • Domain is all Real Numbers ≥ 0 • Range is all Real Numbers ≥ 0
x	y																	
-2	err																	
-1	err																	
0	0																	
1	1																	
2	1.414																	
3	1.732																	
Reciprocal Function		<table border="1"> <thead> <tr> <th>x</th> <th>y</th> </tr> </thead> <tbody> <tr><td>-2</td><td>-0.5</td></tr> <tr><td>-1</td><td>-1</td></tr> <tr><td>0</td><td>undef</td></tr> <tr><td>1</td><td>1</td></tr> <tr><td>2</td><td>0.5</td></tr> <tr><td>3</td><td>0.333</td></tr> </tbody> </table>	x	y	-2	-0.5	-1	-1	0	undef	1	1	2	0.5	3	0.333	$f(x) = \frac{1}{x}$	<ul style="list-style-type: none"> • Never intersects the y-axis • Domain is all Real Numbers $\neq 0$ • Range is all Real Numbers $\neq 0$
x	y																	
-2	-0.5																	
-1	-1																	
0	undef																	
1	1																	
2	0.5																	
3	0.333																	

Name of Parent Function	Graph of Function	Table of Values	Equation of Parent Function	Special Features or Characteristics														
Exponential Function		<table border="1"> <thead> <tr> <th>x</th> <th>y</th> </tr> </thead> <tbody> <tr><td>-2</td><td>0.25</td></tr> <tr><td>-1</td><td>0.5</td></tr> <tr><td>0</td><td>1</td></tr> <tr><td>1</td><td>2</td></tr> <tr><td>2</td><td>4</td></tr> <tr><td>3</td><td>8</td></tr> </tbody> </table>	x	y	-2	0.25	-1	0.5	0	1	1	2	2	4	3	8	$f(x) = 2^x$	<ul style="list-style-type: none"> • Crosses the y-axis at (0,1) • Domain is all Real Numbers • Range is all Real Numbers >0
x	y																	
-2	0.25																	
-1	0.5																	
0	1																	
1	2																	
2	4																	
3	8																	
Logarithmic Function		<table border="1"> <thead> <tr> <th>x</th> <th>y</th> </tr> </thead> <tbody> <tr><td>-2</td><td>err</td></tr> <tr><td>-1</td><td>err</td></tr> <tr><td>0</td><td>undef</td></tr> <tr><td>1</td><td>0</td></tr> <tr><td>2</td><td>0.301</td></tr> <tr><td>3</td><td>0.477</td></tr> </tbody> </table>	x	y	-2	err	-1	err	0	undef	1	0	2	0.301	3	0.477	$f(x) = \log x$	<ul style="list-style-type: none"> • Crosses the x-axis at (1,0) • Domain is all Real Numbers >0 • Range is all Real Numbers ≥ 0
x	y																	
-2	err																	
-1	err																	
0	undef																	
1	0																	
2	0.301																	
3	0.477																	
Absolute Value Function		<table border="1"> <thead> <tr> <th>x</th> <th>y</th> </tr> </thead> <tbody> <tr><td>-2</td><td>2</td></tr> <tr><td>-1</td><td>1</td></tr> <tr><td>0</td><td>0</td></tr> <tr><td>1</td><td>1</td></tr> <tr><td>2</td><td>2</td></tr> <tr><td>3</td><td>3</td></tr> </tbody> </table>	x	y	-2	2	-1	1	0	0	1	1	2	2	3	3	$f(x) = x $	<ul style="list-style-type: none"> • Crosses the y-axis at (0,0) • Domain is all Real Numbers • Range is all Real Numbers ≥ 0
x	y																	
-2	2																	
-1	1																	
0	0																	
1	1																	
2	2																	
3	3																	