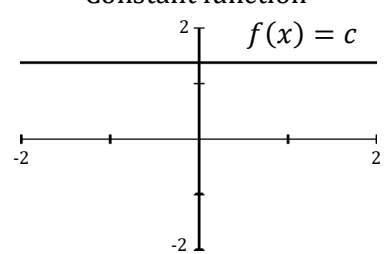
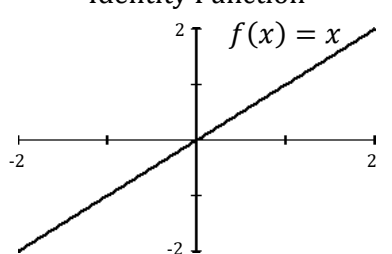
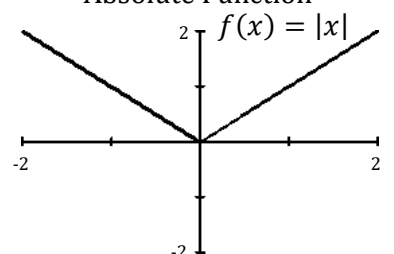
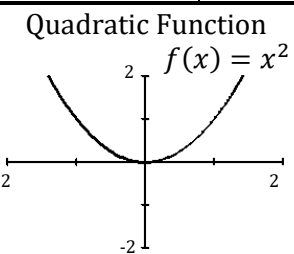
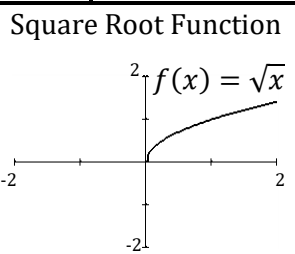
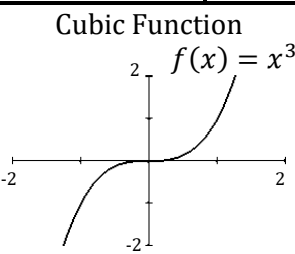
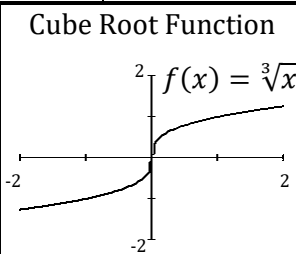


<p>Constant function</p> 		<p>Identity Function</p> 		<p>Absolute Function</p> 			
Domain: $(-\infty, \infty)$ Range: $(-\infty, \infty)$ Even function: Yes Odd function: No	Constant: $(-\infty, \infty)$	Domain: $(-\infty, \infty)$ Range: $(-\infty, \infty)$ Even function: No Odd function: Yes	Increasing: $(-\infty, \infty)$	Domain: $(-\infty, \infty)$ Range: $[0, \infty)$ Even function: Yes Odd function: No	Increasing: $(0, \infty)$ Decreasing: $(-\infty, 0)$		
<p>Quadratic Function</p> 		<p>Square Root Function</p> 		<p>Cubic Function</p> 		<p>Cube Root Function</p> 	
Domain: $(-\infty, \infty)$ Range: $[0, \infty)$ Even function: Yes Odd function: No	Increasing: $(0, \infty)$ Decreasing: $(-\infty, 0)$	Domain: $[0, \infty)$ Range: $[0, \infty)$ Even function: No Odd function: No	Increasing: $(0, \infty)$	Domain: $(-\infty, \infty)$ Range: $(-\infty, \infty)$ Even function: No Odd function: Yes	Increasing: $(-\infty, \infty)$	Domain: $(-\infty, \infty)$ Range: $(-\infty, \infty)$ Even function: No Odd function: Yes	Increasing: $(-\infty, \infty)$

Transformation	Equation (assume $c > 0$)	Description
Vertical translation	$g(x) = f(x) + c$	Shifts $f(x)$ up c units
	$g(x) = f(x) - c$	Shifts $f(x)$ down c units
Horizontal translation	$g(x) = f(x + c)$	Shifts $f(x)$ left c units
	$g(x) = f(x - c)$	Shifts $f(x)$ right c units
Reflection	$g(x) = -f(x)$	Reflects $f(x)$ about the x-axis
	$g(x) = f(-x)$	Reflects $f(x)$ about the y-axis
Vertical stretching/shrinking	$g(x) = c \cdot f(x)$	If $ c > 1$, vertically stretches $f(x)$
		If $0 < c < 1$, vertically shrinks $f(x)$
Horizontal stretching/shrinking	$g(x) = f(c \cdot x)$	If $ c > 1$, horizontally shrinks $f(x)$
		If $0 < c < 1$, horizontally stretches $f(x)$