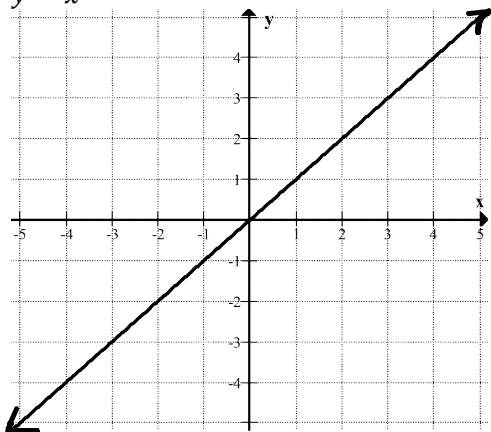


C11 - 1.0 - General Graphs

Domain	Restrictions	Range
$x \in \mathbb{R}$	$x - h \neq 0$ $x - h \geq 0$	$y \in \mathbb{R}$ $y \geq, \leq k$

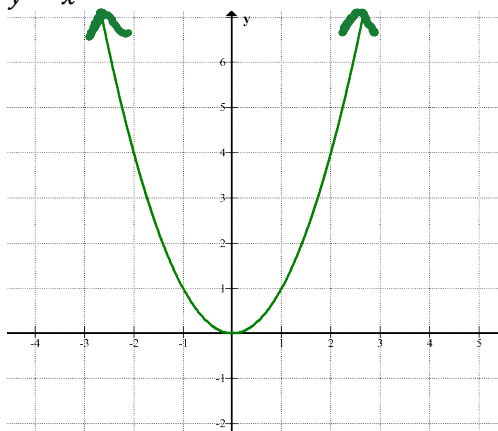
Linear
 $y = mx + b$
 $y = x$

$x \in \mathbb{R}$
 $y \in \mathbb{R}$



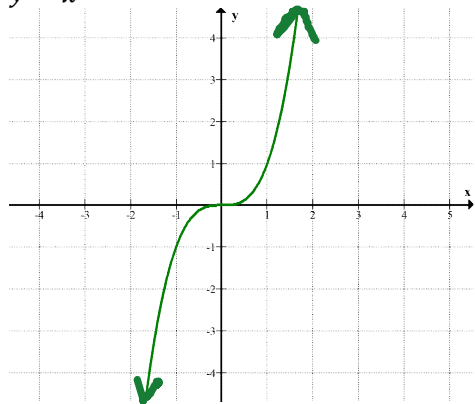
Quadratic
 $y = a(x - h)^2 + k$
 $y = x^2$

$x \in \mathbb{R}$
 $y \geq, \leq k$



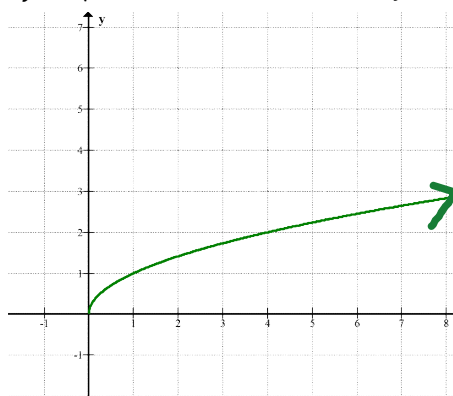
Polynomial
 $y = ax^3 + bx^2 + cx + d$
 $y = x^3$

$x \in \mathbb{R}$
 $y \in \mathbb{R}$



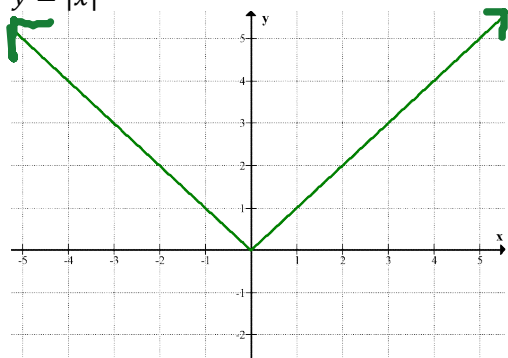
Radical
 $y = a\sqrt{(x - h)} + k$
 $y = \sqrt{x}$

Restrictions
 $x - h \geq 0$
 $y \geq, \leq k$



Absolute Value
 $y = a|b(x - h)| + k$
 $y = |x|$

$x \in \mathbb{R}$
 $y \geq, \leq k$



Reciprocals
 $y = \left(\frac{a}{x - h}\right) + k$
 $y = \frac{1}{x}$

Restrictions
 $x - h \neq 0$
 $y \neq k^*$

