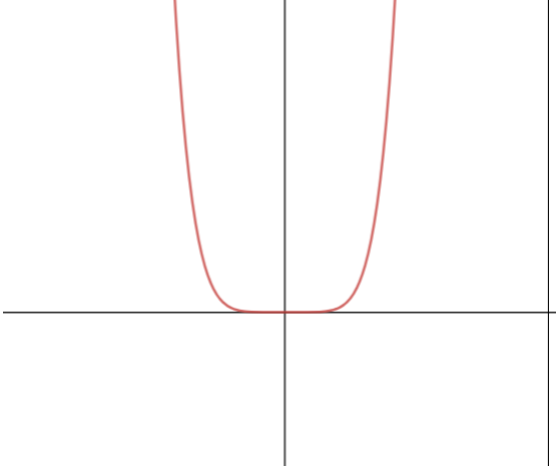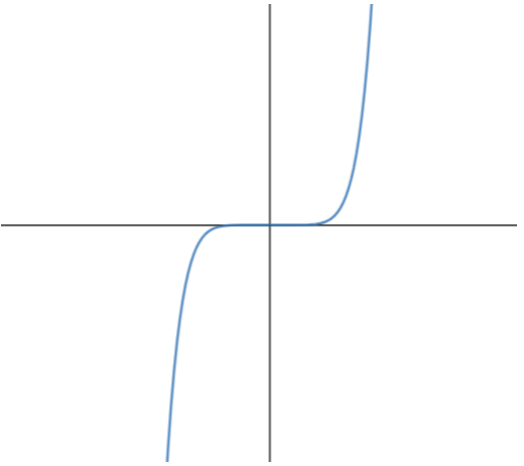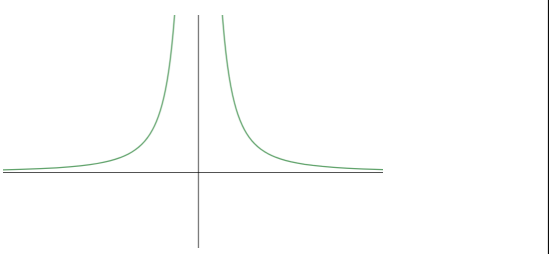Classifying Power Functions:

	p even	p odd
$p > 0$		
Examples		
End Behavior	as $x \to \infty$, $x^p \to$ _____	as $x \to \infty$, $x^p \to$ _____
	as $x \to -\infty$, $x^p \to$ _____	as $x \to -\infty$, $x^p \to$ _____
$p < 0$		
Examples		
End Behavior	as $x \to \infty$, $x^p \to$ _____	as $x \to \infty$, $x^p \to$ _____
	as $x \to -\infty$, $x^p \to$ _____	as $x \to -\infty$, $x^p \to$ _____

Classifying Power Functions:

	p even	p odd
$p > 0$		
Examples	$x^2, x^4, x^{10}, x^{100}$	$x^3, x^5, x^{55}, x^{201}$
End Behavior	as $x \to \infty$, $x^p \to \infty$	as $x \to \infty$, $x^p \to \infty$
	as $x \to -\infty$, $x^p \to \infty$	as $x \to -\infty$, $x^p \to -\infty$
$p < 0$		
Examples	$\frac{1}{x^2}, \frac{1}{x^4}, \frac{1}{x^{10}}$	$\frac{1}{x^3}, \frac{1}{x^5}, \frac{1}{x^{55}}$
End Behavior	as $x \to \infty$, $x^p \to 0$	as $x \to \infty$, $x^p \to 0$
	as $x \to -\infty$, $x^p \to 0$	as $x \to -\infty$, $x^p \to 0$