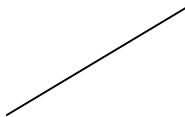
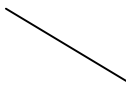
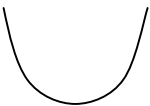






Polynomial	Leading Coefficient	Behavior at the “ends”	Sketch
Linear	Positive	As $x \rightarrow -\infty$, $f(x)$ goes down As $x \rightarrow \infty$, $f(x)$ goes up	
	Negative	As $x \rightarrow -\infty$, $f(x)$ goes up As $x \rightarrow \infty$, $f(x)$ goes down	
Quadratic	Positive	As $x \rightarrow -\infty$, $f(x)$ goes up As $x \rightarrow \infty$, $f(x)$ goes up	
	Negative	As $x \rightarrow -\infty$, $f(x)$ goes down As $x \rightarrow \infty$, $f(x)$ goes down	
Cubic	Positive	As $x \rightarrow -\infty$, $f(x)$ goes down As $x \rightarrow \infty$, $f(x)$ goes up	
	Negative	As $x \rightarrow -\infty$, $f(x)$ goes up As $x \rightarrow \infty$, $f(x)$ goes down	
Quartic	Positive	As $x \rightarrow -\infty$, $f(x)$ goes up As $x \rightarrow \infty$, $f(x)$ goes up	
	Negative	As $x \rightarrow -\infty$, $f(x)$ goes down As $x \rightarrow \infty$, $f(x)$ goes down	