

mobius

Function End Behaviour (Polynomials) - Rule to Behaviour



(1		2	
	What end behaviour would this power and coefficient create?		What end behaviour would this power and coefficient create?
$highest\ power = even$		$highest\ power = even$	
${\sf leading\ coefficient} = {\sf negative}$	As $x \to -\infty$, $y \to \infty$	${\sf leading\ coefficient} = {\sf positive}$	As $x \to -\infty$, $y \to \infty$
	as $x o \infty$, $y o \infty$		as $x o \infty$, $y o -\infty$
	As $x \to -\infty$, $y \to -\infty$		Bas $x \to -\infty$, $y \to \infty$
	as $x o \infty$, $y o -\infty$		as $x \to \infty$, $y \to \infty$
3		4	
	What end behaviour would this power and coefficient create?		What end behaviour would this power and coefficient create?
$highest\;power=odd$		$highest\ power = odd$	
${\sf leading\ coefficient} = {\sf negative}$	As $x \to -\infty$, $y \to \infty$	${\sf leading\ coefficient} = {\sf positive}$	$\hat{as}\ x o -\infty$, $y o -\infty$
	as $x o \infty$, $y o \infty$		as $x \to \infty$, $y \to \infty$
	B as $x o -\infty$, $y o \infty$		
	as $x o \infty$, $y o -\infty$		as $x o \infty$, $y o -\infty$