

## mobius

## Function End Behaviour (Polynomials) -**Behaviour to Rule**



 ${\sf leading\ coefficient} = {\sf positive}$ 

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as $x  ightarrow -\infty$ , $y  ightarrow -\infty$	What does this end behaviour tell us about a function's highest power and leading coefficient?	as $x  ightarrow -\infty$ , $y  ightarrow -\infty$	What does this end behaviour tell us about a function's highest power and leading coefficient?	
as $x  o \infty$ , $y  o -\infty$	A highest power $=$ odd leading coefficient $=$ negative $B$ highest power $=$ even leading coefficient $=$ negative		$\begin{tabular}{ll} A & highest power = odd \\ leading coefficient = positive \\ \hline B & highest power = even \\ leading coefficient = positive \\ \hline \end{tabular}$	
3 as $x  o -\infty$ , $y  o \infty$	What does this end behaviour tell us about a function's highest power and leading coefficient?	4 as $x  o -\infty$ , $y  o \infty$	What does this end behaviour tell us about a function's highest power and leading coefficient?	
s $x  o \infty$ , $y  o -\infty$	$\begin{array}{ll} A & highest \; power = odd \\ leading \; coefficient = negative \\ \\ B & highest \; power = odd \end{array}$	as $x \to \infty$ , $y \to \infty$	$footnotemark{\sf A}$ highest power $=$ odd leading coefficient $=$ positive $footnotemark{\sf B}$ highest power $=$ even	

 ${\sf leading\ coefficient} = {\sf positive}$