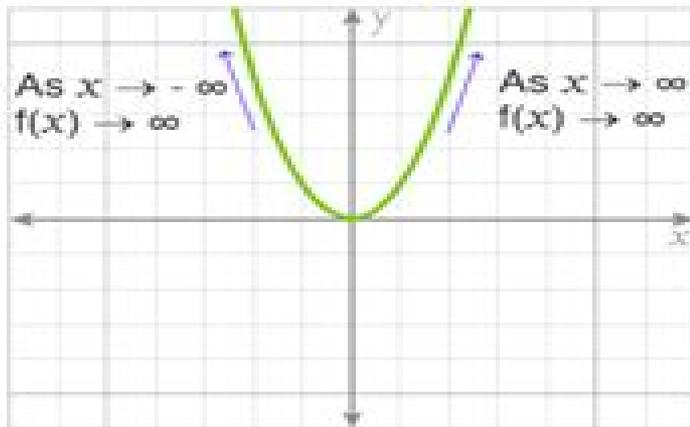


# End Behavior of Polynomials

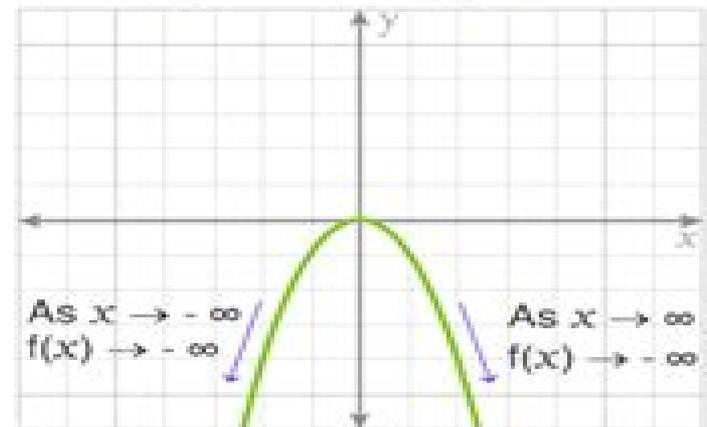
## Even Degree Polynomials

### With Positive Leading Coefficient



Both ends of the graph rise as  $x \rightarrow \pm \infty$

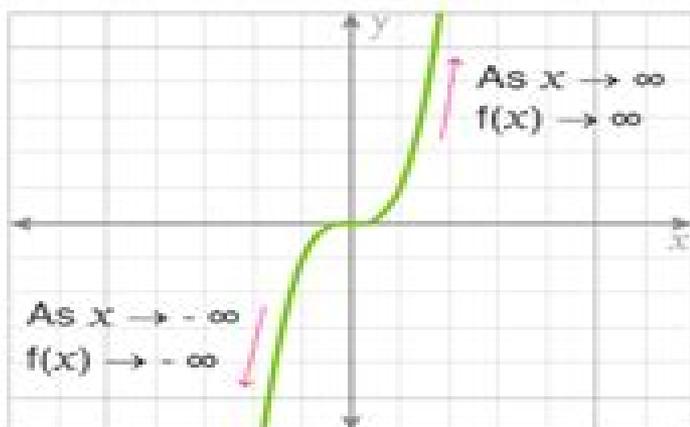
### With Negative Leading Coefficient



Both ends of the graph fall as  $x \rightarrow \pm \infty$

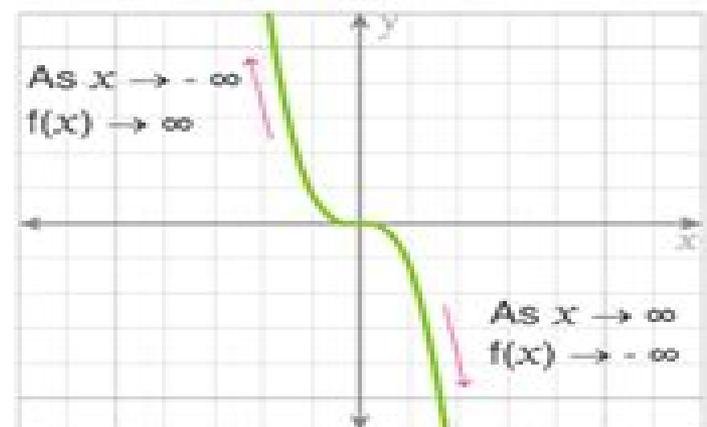
## Odd Degree Polynomials

### With Positive Leading Coefficient



The graph rises as  $x \rightarrow \infty$   
and falls as  $x \rightarrow -\infty$

### With Negative Leading Coefficient



The graph falls as  $x \rightarrow \infty$   
and rises as  $x \rightarrow -\infty$

# Investigating End Behavior Of Polynomials

**Thirumalaisamy P.  
Velavancorresponding**



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