

Lecture 18 The End-behavior of Polynomial Functions

Notation: $x \rightarrow \infty$ means x becomes large, positive.

$x \rightarrow -\infty$ means x becomes large, negative (i.e. $|x|$ is large and $x < 0$).

When $x \rightarrow \infty$, $f(x) = a_n x^n + a_{n-1} x^{n-1} + \dots + a_1 x + a_0$ behaves as the leading term $a_n x^n$.

(Other terms are much smaller because their exponents are smaller.)

$$\begin{aligned} \text{Ex: } f(x) = 2x^3 - x^2 + 3x + 1 &= 2x^3 \left(1 - \frac{x^2}{2x^3} + \frac{3x}{2x^3} + \frac{1}{2x^3} \right) \\ &= 2x^3 \left(1 - \frac{1}{2x} + \frac{3}{2x^2} + \frac{1}{2x^3} \right) \end{aligned}$$

So, if x is large, then $\frac{1}{2x}$, $\frac{3}{2x^2}$, $\frac{1}{2x^3}$ are small and $f(x) \approx 2x^3$ is the leading term.

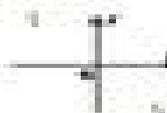


So, we have four types of the end-behavior for polynomial functions:



$$\begin{aligned} \text{Ex: } g(x) &= -2x^3 + 3x^2 - 10x + 1 \\ \text{If } x &\rightarrow \infty, \text{ then } g(x) \rightarrow -\infty \\ \text{If } x &\rightarrow -\infty, \text{ then } g(x) \rightarrow \infty \end{aligned}$$

(End-behavior:



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Series Volume 1

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