

mobius

Function End Behaviour (Polynomials) -**Function to Power and Coefficient**

2



1	What is the highest power and
	leading coefficient of this function?

What is the highest power and leading coefficient of this function?

$$f(x) = -2x^7 - 3x^6 - 3x^5$$

$$f(x) = -2x^7 - 3x^6 - 3x^5$$
 $f(x) = 5x^3 - 4x^2 - 4x$

highest power
$$= 7$$

highest power
$$= 7$$

highest power = 7 $\begin{vmatrix} B \\ 1 \end{vmatrix}$ highest power = 7 $\begin{vmatrix} A \\ 1 \end{vmatrix}$ highest power = 3 $\begin{vmatrix} B \\ 1 \end{vmatrix}$ highest power = 3

leading coefficient
$$=$$
 -3 leading coefficient $=$ -2 leading coefficient $=$ 5 leading coefficient $=$ -5

4

3

What is the highest power and leading coefficient of this function?

What is the highest power and leading coefficient of this function?

$$f(x) = -3x + 2$$

highest power = 1leading coefficient = -3 $f(x) = -5x^7 + 5x^6 + 5x^5$

highest power = 1leading coefficient = 3

highest power = 7^{B} highest power = 7^{B} leading coefficient = 5 leading coefficient = -5

What is the highest power and 5 leading coefficient of this function?

What is the highest power and 6 leading coefficient of this function?

$$f(x) = -5x^3 + 2x^2 + 2x$$

$$f(x) = -5x^3 + 2x^2 + 2x f(x) = -4x^3 - 2x^2 - 2x$$

highest power = 3^B highest power = 3^A highest power = 3^B

highest power = 3

leading coefficient = 5 leading coefficient = -5 leading coefficient = 4 leading coefficient = -4

7

What is the highest power and leading coefficient of this function? 8

What is the highest power and leading coefficient of this

$$f(x) = -2x^2 + 5x + 5$$

$$f(x) = -4x - 4$$

highest power = 1leading coefficient = -4

highest power = 2

highest power = 1

leading coefficient = -2 leading coefficient = -2

highest power = 1leading coefficient = 4