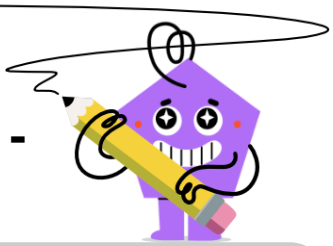
Name

Function End Behaviour (Polynomials) - Function to Behaviour



1 What end behaviour would this function have?

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

A
as $x \to -\infty, y \to -\infty$
as $x \to \infty, y \to -\infty$

B
as $x \to -\infty, y \to -\infty$
as $x \to \infty, y \to \infty$

2 What end behaviour would this function have?

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

A
as $x \to -\infty, y \to -\infty$
as $x \to \infty, y \to -\infty$

B
as $x \to -\infty, y \to \infty$
as $x \to \infty, y \to -\infty$

3 What end behaviour would this function have?

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

A
as $x \to -\infty, y \to \infty$
as $x \to \infty, y \to -\infty$

B
as $x \to -\infty, y \to \infty$
as $x \to \infty, y \to \infty$

4 What end behaviour would this function have?

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

A
as $x \to -\infty, y \to -\infty$
as $x \to \infty, y \to \infty$

B
as $x \to -\infty, y \to -\infty$
as $x \to \infty, y \to -\infty$

5 What end behaviour would this function have?

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

A
as $x \to -\infty, y \to \infty$
as $x \to \infty, y \to -\infty$

B
as $x \to -\infty, y \to -\infty$
as $x \to \infty, y \to -\infty$

6 What end behaviour would this function have?

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

A
as $x \to -\infty, y \to -\infty$
as $x \to \infty, y \to \infty$

B
as $x \to -\infty, y \to \infty$
as $x \to \infty, y \to -\infty$

7 What end behaviour would this function have?

$$f(x) = 3x^6 + 3x^5 + 3x^4$$

A
as $x \to -\infty, y \to \infty$
as $x \to \infty, y \to \infty$

B
as $x \to -\infty, y \to \infty$
as $x \to \infty, y \to -\infty$

8 What end behaviour would this function have?

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

A
as $x \to -\infty, y \to \infty$
as $x \to \infty, y \to \infty$

B
as $x \to -\infty, y \to \infty$
as $x \to \infty, y \to -\infty$