Name

Function End Behaviour (Polynomials) - Behaviour to Function

1 Which function (based on its powers and coefficents) would have this end behaviour?

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

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

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

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

2 Which function (based on its powers and coefficents) would have this end behaviour?

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

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

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

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

3 Which function (based on its powers and coefficents) would have this end behaviour?

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

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

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

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

4 Which function (based on its powers and coefficents) would have this end behaviour?

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

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

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

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