Exercise 21

For the following exercises, determine the end behavior of the functions.

$$f(x) = -2x^4 - 3x^2 + x - 1$$

Solution

For a polynomial function, look at the leading term, $-2x^4$. x is raised to an even power and the coefficient is negative, so $f(x) \to -\infty$ as $x \to \pm\infty$.