

$f(x) = \boxed{-6}x^3 + 7x^2 + 3x + 1$

Determine the end behavior of f .

As $x \rightarrow \infty$, $f(x) \rightarrow -\infty$

As $x \rightarrow -\infty$, $f(x) \rightarrow \infty$

x-intercepts of polynomial function.

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Eq. $f(x) = (\boxed{x-2})(\boxed{x+1})(\boxed{x-4})$
leading term x^3 .

$(x-2)(x+1)(x-4) = 0$

$\boxed{x=2}, \boxed{-1}, \boxed{4}$

3: x-intercepts.
2 turning points

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intercepts and turning points of polynomial functions.

If a polynomial function has degree n , then it has at most n x-intercepts, and at most $n-1$ turning points

degree of this polynomial function
 ≥ 4

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