

Algebra / Determining the end behavior of the graph of a polynomial function

Determining the end behavior of the graph of a polynomial function
 Choose the end behavior of the graph of each polynomial function.

<i>deg 6 even same</i> (a) $f(x) = 4x^6 - 3x^4 + x^3 + 7x^2$ <i>LC 4 up</i>	☐ Falls to the left and rises to the right ☐ Rises to the left and falls to the right ☒ Rises to the left and rises to the right ☐ Falls to the left and falls to the right
<i>deg 3 odd different</i> (b) $f(x) = -4x^3 + 7x^2 + 3x + 4$ <i>LC -4</i>	☐ Falls to the left and rises to the right ☒ Rises to the left and falls to the right ☐ Rises to the left and rises to the right ☐ Falls to the left and falls to the right
<i>deg 3 odd different</i> (c) $f(x) = 2(x - 3)^3(x + 4)$ <i>LC 2</i>	☐ Falls to the left and rises to the right ☐ Rises to the left and falls to the right ☒ Rises to the left and rises to the right ☐ Falls to the left and falls to the right

degree
even
finish the same direction
LC positive ↑ ↑
LC Negative ↓ ↓
odd
finish in opposite direction
LC positive ↑ ↓
LC Negative ↓ ↑

Note: The Solve feature is not available to students.

Explanation Try Another Check Solve

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#PolynomialAndRationFunctions

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