POLYNOMIAL BEHAVIOR

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|  | Graph of f(x) | At Zero: Bounce, Wiggle or Cross/ Exponent of Corresponding Factor | | | End Behavior | | Leading Coefficient and Highest Degree |
|  |  | x = -2 | x = 1 | x = 3 | Left | Right | A xn |
| f(x) = (x+2)3(x-1)1(x-3)2 |  | Wiggles  3 | Crosses  1 | Bounce  2 |  |  |  |
| f(x) = 2(x+2)1(x-1)2(x-3)2 |  |  |  |  |  |  |  |
| f(x) = (x+2)5(x-1)1(x-3)1 |  |  |  |  |  |  |  |
| f(x) = 5(x+2)1(x-1)4(x-3)2 |  |  |  |  |  |  |  |
| f(x) = (x+2)3(x-1)2(x-3)2 |  |  |  |  |  |  |  |
| f(x) = -3(x+2)1(x-1)1(x-3)2 |  |  |  |  |  |  |  |
| f(x) = -2(x+2)3(x-1)1(x-3)1 |  |  |  |  |  |  |  |
| f(x) = -2(x+2)2(x-1)1(x-3)2 |  |  |  |  |  |  |  |
| f(x) = (x+2)3(x-1)1(x-3)2 |  |  |  |  |  |  |  |
| f(x) = -2(x-1)3 |  |  |  |  |  |  |  |