**Polynomial Evaluation Write-Up**

This project took a little bit to get going, but once I had completed the functions to evaluate a given polynomial, the hardest part was honestly just making sure I plugged the preprocessed polynomial in correctly. Here is the preprocessed polynomial:

(x^4 + 0x^3 + 0x^2 + 0x + 5) \* [(x^2 + 0x + 1) \* (x + 4) + (-x + 4)] + [(x^2 + 0x + 1) \* (x - 11) + (x - 26)]

My results are identical most of the time. Within a certain range where the resultant value is small, the answer is the same regardless of the method used for calculation. There are a few billionths or trillionths off when we get to larger numbers, but after a little bit of research I’m ready to blame Java doubles for that. The plots can be seen below. There are two plots there, but they are overlaid because they are near identical.

Chart, line chart

Description automatically generated