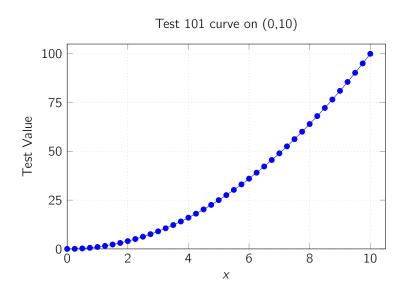
# Level 9 Homework Group E: Excel Visualization

Student Kaushik Aryan R Date August 11th 2025

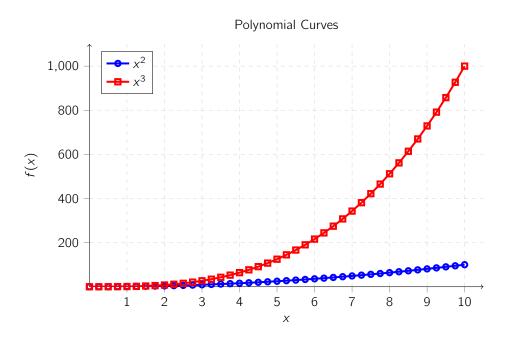
### a. Compile and run the sample programs

The sample programs TestSingleCurve.cpp, TestTwoCurve.cpp and TestMultipleCurve.cpp were run. They compiled without errors, and the following results were obtained:

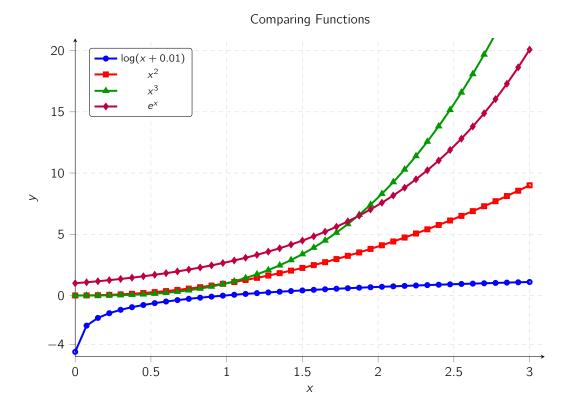
#### TestSingleCurve.cpp



#### TestTwoCurve.cpp



#### TestMultiCurve.cpp



## b. Compute Option Price for a monotonically increasing Spot (S)

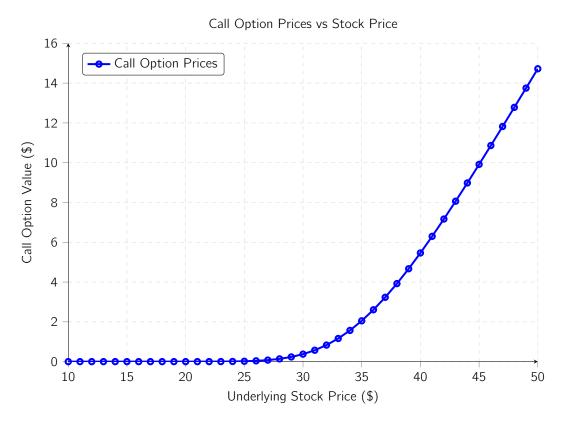


Figure 1: Call option pricing curve showing characteristic exponential growth for out-of-the-money options transitioning to linear growth for in-the-money options

The previously implemented MeshGenerator class (as part of section A&B) was used to generate a mesh array of doubles separated by a mesh size h.

// Generate uniform price mesh for underlying asset values
MeshGenerator<double> priceMesh(minAssetPrice, maxAssetPrice, priceIncrement);