**Formula used in examples:**

**By comparing the actual value and the output value from our program we concluded that:**

The accuracy of all 3 questions differ according to the method used. The answers are more accurate in hand computation whereas, the answers obtained from Mathematica computation are accurate to a few decimal points. The error is normally very less but in some places where the gap is large and the values obtained from the given function is also large the error can also decrease and the function can lose it’s precision. Overall the answers are approximately the same as the actual value of the function. So in the end we can conclude that the computations from the Mathematica are not as accurate as hand computation.