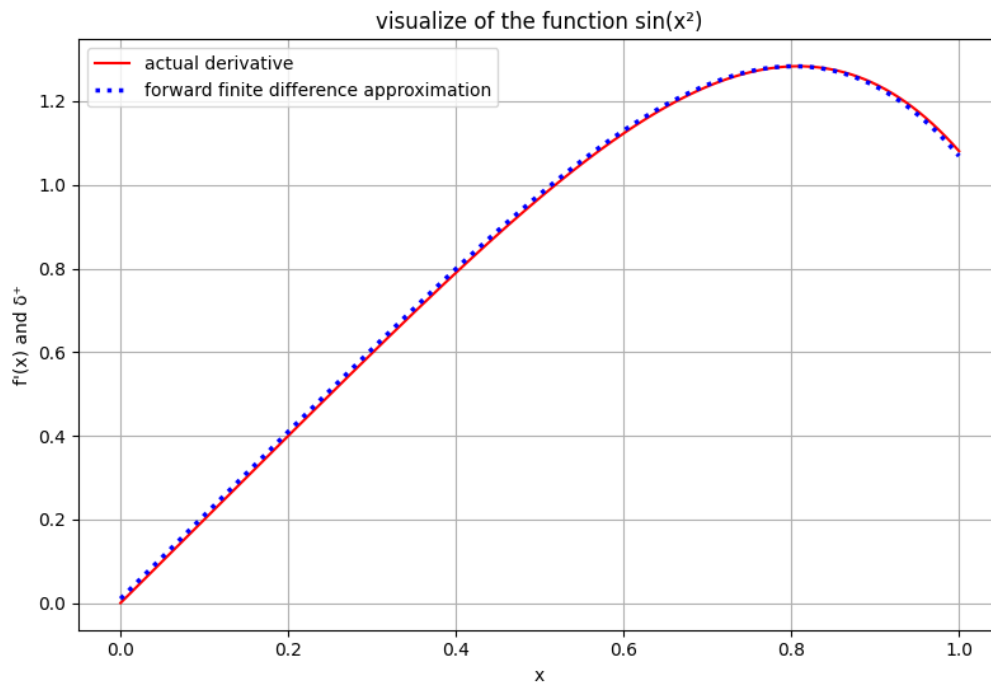
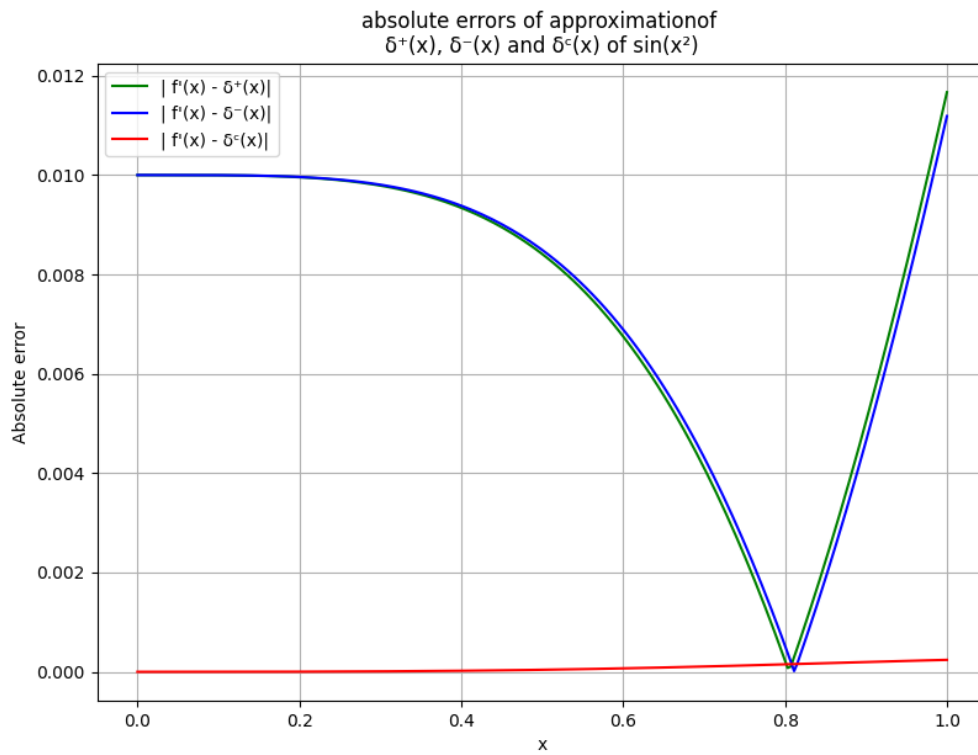


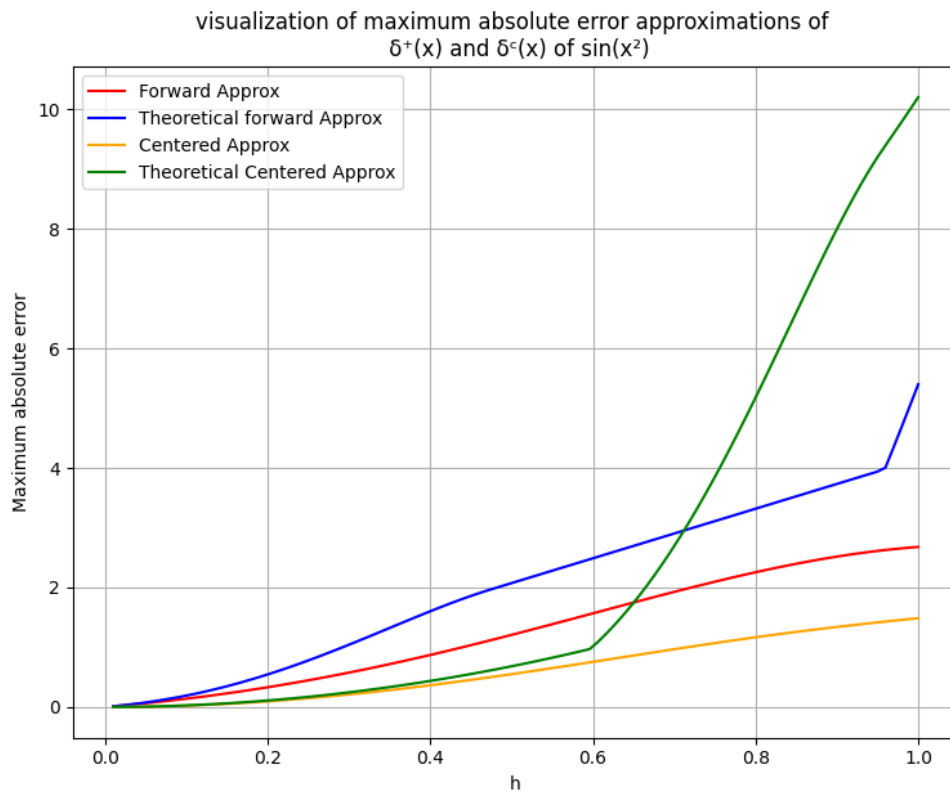
Q1)



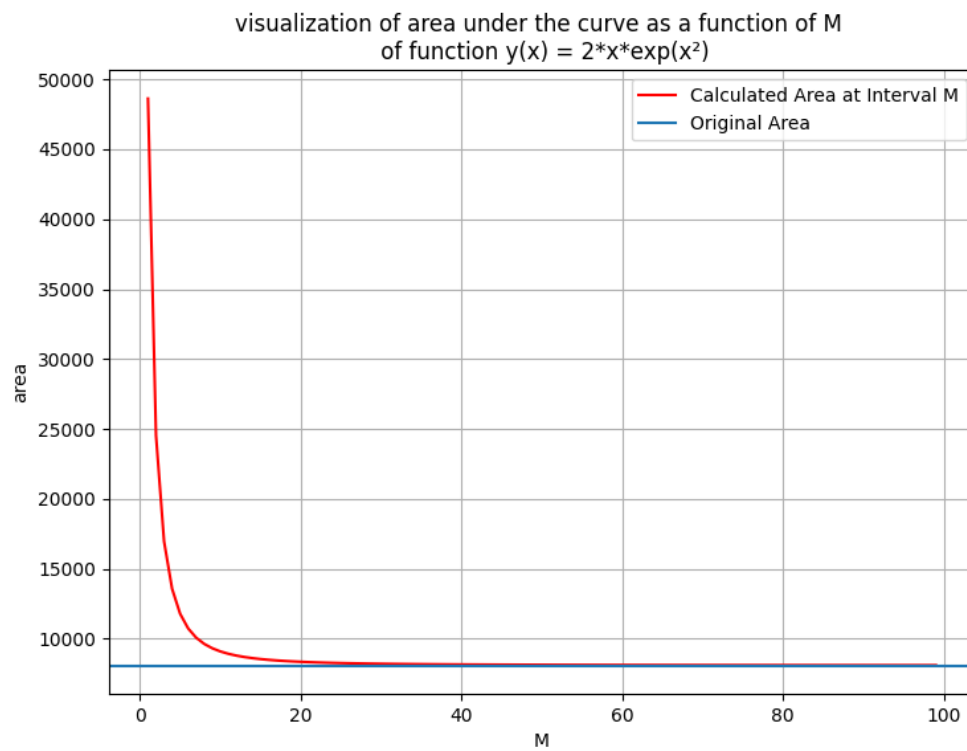
Q2)



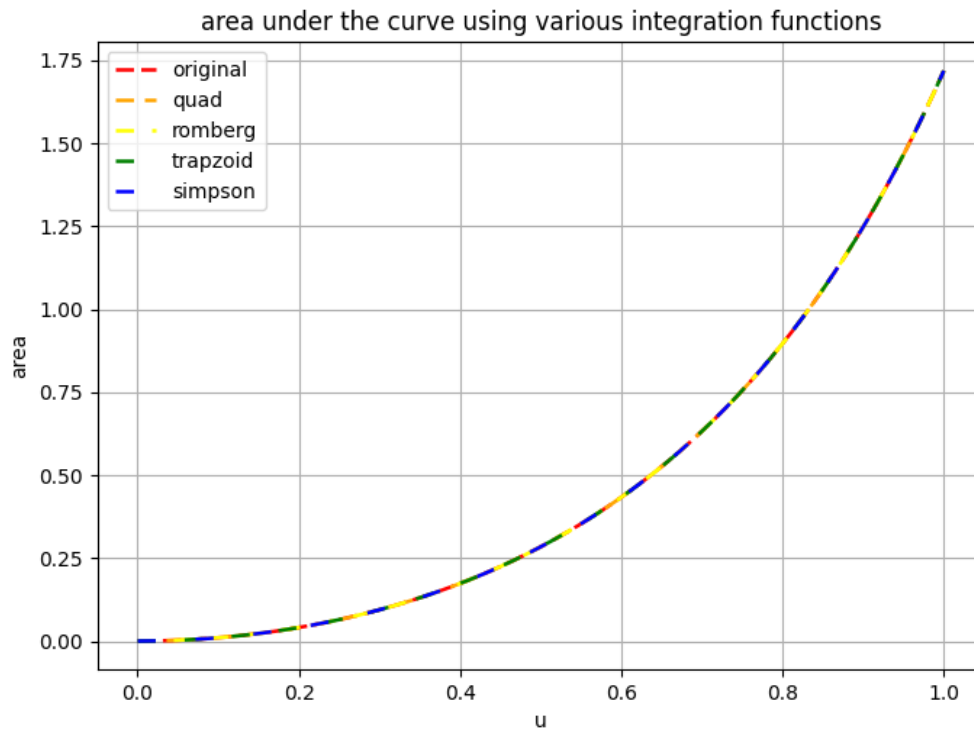
Q3)



Q4)



Q5)



Q6)

```
p = Polynomial([1, 2, 3])  
pd = p.derivative()  
print(pd)
```

```
numerical differentiation and integration git (main) *  
Coefficients of the polynomial are:  
2 6
```

```
p = Polynomial([1, 2, 3])  
print(p.area(1,2))
```

```
Area in the interval [1, 2] is: 11.0
```

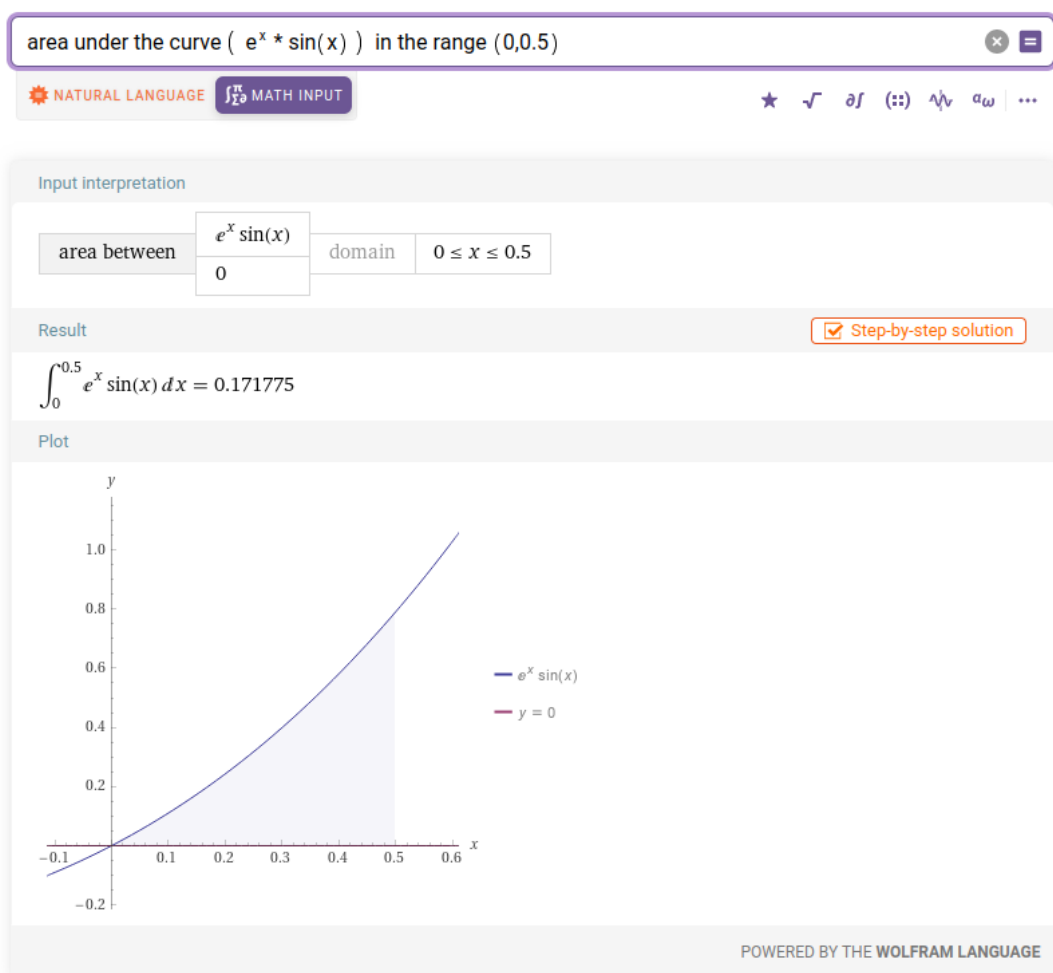
Q7)

Calculated Area : 0.17177502333917638
Error (Actual - Calculated) : -2.3339176369319148e-08

Error within a guaranteed error of 10^{-8}

Actual area used is **0.171775**

Calculated using <https://www.wolframalpha.com/>



[Link of the above page](#)