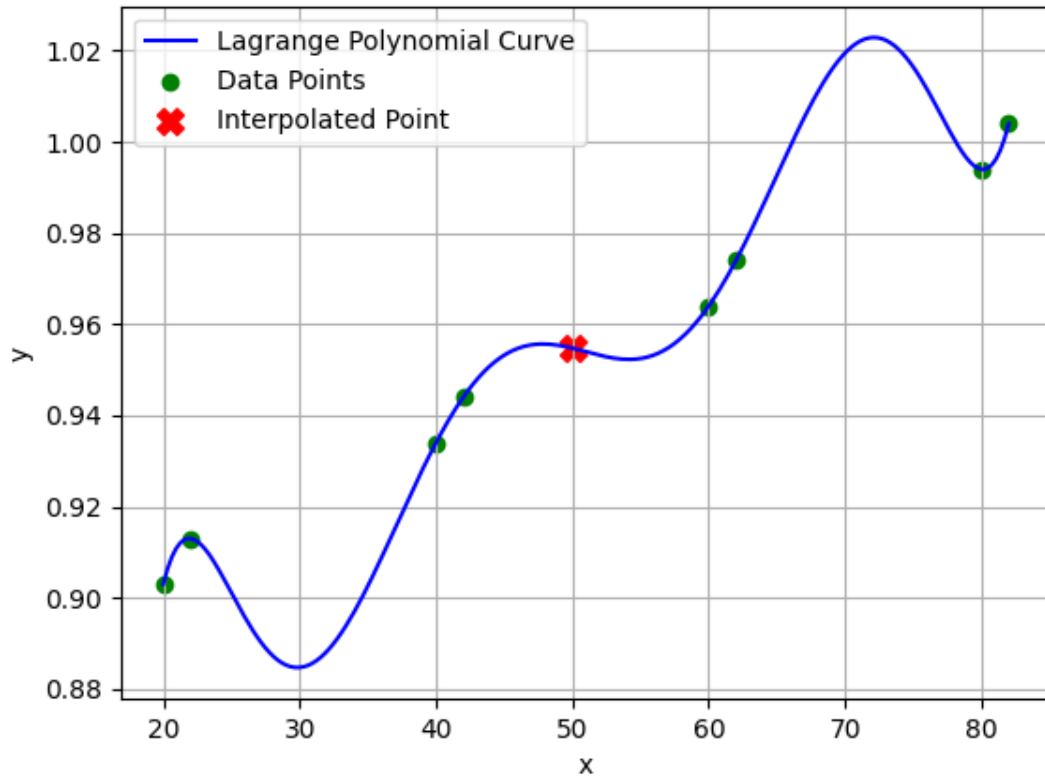
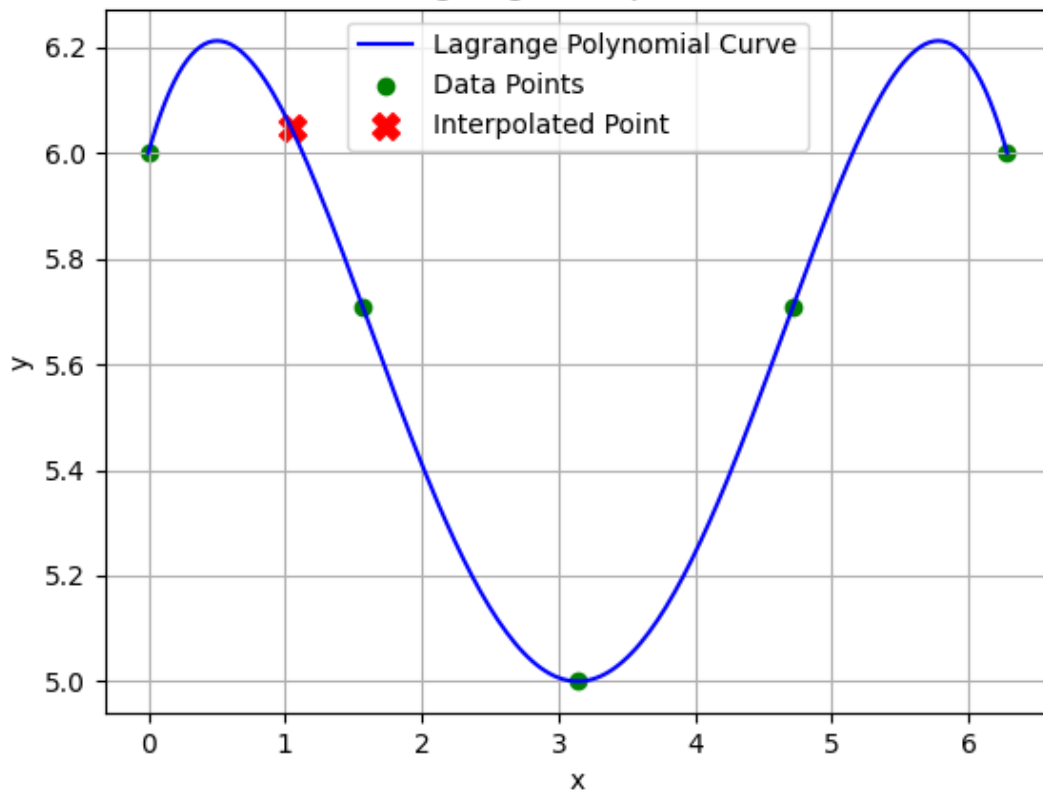


Lagrange Interpolation



Lagrange Interpolation



Output:

```
Secant Method for  $f(x) = \exp(-x) - x$   
Initial guesses:  $x_0 = -1$  ,  $x_1 = 3.0$   
Iteration 1:  $x = 1.230358$   
Iteration 2:  $x = 0.405214$   
Iteration 3:  $x = 0.585141$   
Iteration 4:  $x = 0.567682$   
Iteration 5:  $x = 0.567142$   
Iteration 6:  $x = 0.567143$   
Root of eqn: 0.5671432905804034
```

```
Secant Method for  $f(x) = \exp(-x) - x$   
Initial guesses:  $x_0 = 1.0$  ,  $x_1 = 2.0$   
Iteration 1:  $x = 0.487142$   
Iteration 2:  $x = 0.58378$   
Iteration 3:  $x = 0.567386$   
Iteration 4:  $x = 0.567143$   
Iteration 5:  $x = 0.567143$   
Root of eqn: 0.5671432904419066
```

