

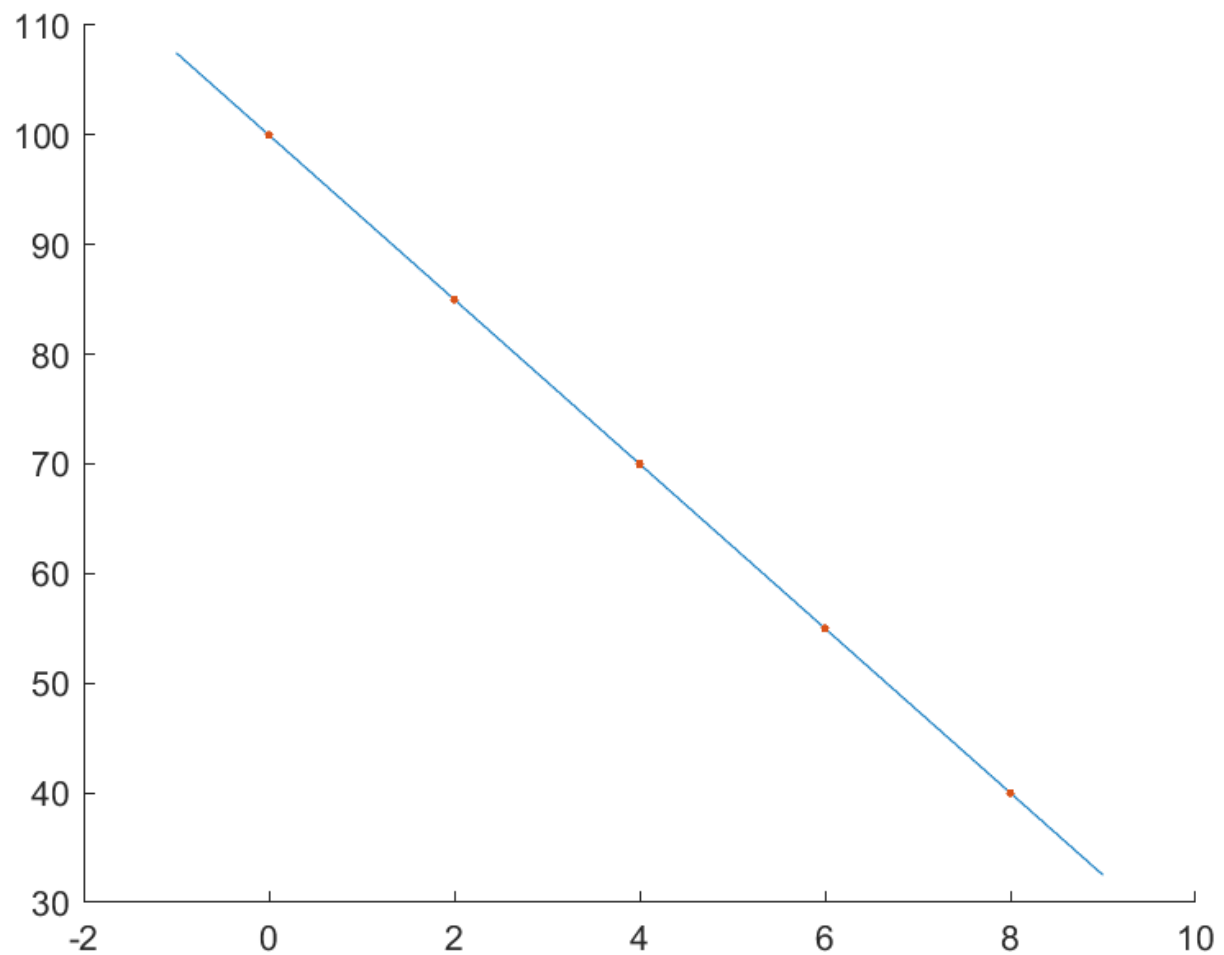
# Problem-7

$$f_n(x) = \sum_{i=0}^n L_i(x) f(x_i)$$

$$L_i(x) = \prod_{j=0; j \neq i}^n \frac{x - x_j}{x_i - x_j}$$

$$R_n = f[x, x_n, x_{n-1}, \dots, x_0] \prod_{i=0}^n (x - x_i)$$

## The Output



The Lagrange plot with data points marked in orange. X on x-axis and T on y-axis.

```
>> T7_20110065([2.7, 3.2])
```

```
ans =
```

```
79.7500000000000014 76.0000000000000000
```