

| x | f(x) |
|-----|------|
| 0 | 150 |
| 40 | 155 |
| 100 | 160 |
| 70 | 158 |
| 50 | 156 |

| i | x_i | $f(x_n)$ | a_0 | |
|---|-------|----------|--------|-----------|
| 0 | 0 | 150 | | |
| 1 | 40 | 155 | 0.125 | |
| 2 | 100 | 160 | 0.0833 | -0.000417 |