Sto Newton Raphson importation 17 Payrivan 13200 x = 2 o i maredo 4 Iteration

$$\begin{array}{ll}
x = 57 & \rightarrow x^2 \cdot 7 & \rightarrow f(x) = x^2 - 7 \\
f(x) = x^2 - 7 & & \\
f'(x) = 2x & & \\
\end{array}$$

Iteration 1

$$\times_{0}^{2} = \times_{0}^{2} = \frac{1}{2} =$$

Iteration 2

Herations

Heration +

$$x_3 = 2.64575$$

 $x_4 = x_3 - f(x_3) = 2.64575 - (2.64575^2 - 7) \approx 2.64575 \times 1311$
 $f'(x_3)$ $f'(x_3)$

oli Secant method inomunu J7 ninun Rision x = 2.0
4.1 more 20 4 Heration
$x = \sqrt{7} \rightarrow x^2 = 7 \rightarrow f(x) = x^2 - 7$
Iteration 1 pursuant
* = 2 , × = 3
$x_2 = x_1 - f(x_1)(x_1 - x_0) = 3 - (3^2 - 7)(3 - 2) = 3 - 0.4 = 2.6$
$f(x_0) - f(x_0)$ $(3^2-7) - (2^2-7)$
+ -3
Iteration 2
X, = 3 , ×2 = 2.6 -0.24 -0.4
$x_3 = x_2 - f(x_2)(x_2-x_1) = 2.6 - (2.6-7)(2.6-3) = 2.6428$
$f(x_1) - f(x_1)$ (2,6-7)-(3-7)
-0.24 2
Iteration 3
×2=2.6, ×3=2.6428
$x_4 = x_3 - f(x_3)(x_3-x_2) = 2.6428 - (2.6428-7)(2.6428-2.6) = 2.645$
$f(x_3) - f(x_2)$ (2.6428-7) - (2.6-7)
lteration 4
×3=2.6428 ,×4=2.64578
75 = x4 - f(x4) (x4-x3) = 2.64578 - (2.64578-7)(2.64578-26428)
$f(x_0) - f(x_0)$ (2.64578-7) - (2.6428-7)
: 2.6457512

