$$f(x) = -0.9x^{2} + 1.7x + 2.5$$

$$x_{0} = 5, \quad x_{1} = x_{0}, \quad \varepsilon_{5} = 0.01\%$$

$$0) \quad f(x) = 0 \rightarrow 1.7x + 2.5 = 0.9x^{2}$$

$$x = \sqrt{1.7x + 2.5} = 9(x)$$

$$x_{1} = 9(x_{0}) = 3.496029494$$

$$\varepsilon_{0} = \frac{1}{x_{1} - x_{0}} \cdot \frac{100\%}{0} = \frac{30.08\%}{0}$$

$$x_{2} = 9(x_{1}) = \frac{3.062905327}{0}$$

$$\varepsilon_{0} = \frac{1}{x_{2} - x_{11}} \cdot \frac{100\%}{0} = \frac{14.14\%}{0}$$

$$x_{3} = 9(x_{2}) = 2.926305797$$

$$\varepsilon_{0} = \frac{1}{x_{3} - x_{2}} \cdot \frac{100\%}{0} = 4.46\%$$

$$x_{4} = 9(x_{3}) = \frac{2.867286662}{x_{1}}$$

$$\varepsilon_{0} = \frac{1}{x_{2} - x_{1}} \cdot \frac{100\%}{0} = 0.005\%$$

$$x_{1} = x_{2} = 2.867286662$$

$$\varepsilon_{1} = \frac{1}{x_{3} - x_{2}} \cdot \frac{100\%}{0} = 0.005\%$$

$$x_{1} = x_{2} = 2.867286662$$

$$\varepsilon_{1} = \frac{1}{x_{3} - x_{2}} \cdot \frac{100\%}{0} = 0.005\%$$

6) 
$$f'(x) = -1.8x + 1.7, x_0 = 5$$
 $X_1 = X_0 - \frac{f(x_0)}{f'(x_0)} = 3.424657574$ 
 $E_0 = \frac{1}{100} \times \frac{1000}{0} = 31.51$  %

 $E_0 = \frac{1}{100} \times \frac{1000}{0} = 31.51$  %

 $E_0 = \frac{1}{100} \times \frac{1000}{0} = 14.61$  %

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 $E_0 = \frac{1}{100} \times \frac{1000}{0} = 2.861146976$ 
 $E_0 = \frac{1}{100} \times \frac{1000}{0} = 2.160$  %

 $E_0 = \frac{1}{100} \times \frac{1000}{0} = 2.86010466$ 
 $E_0 = \frac{1}{100} \times \frac{1000}{0} = 2.200$  %

 $E_0 = \frac{1000}{0} \times \frac{1000}{0} = 2.200$  %

 $E_0 = \frac{1000}{0} \times \frac{1000}{0} = 2.200$  %

 $E_0 = \frac{1000}{0$