1. Show that
\[ e_{n+1} \approx \frac{|f''(r)|}{2|f'(r)|} e_n e_{n-1} = C e_n e_{n-1} \]

2. Use the secant method to find a solution of
\[ \exp(x^2 - 2) = 3 \ln(x) \]
starting with \( x_0 = 1.5, x_1 = 1.4 \).