Read directions carefully and show all your work. Partial credit will be assigned based upon the correctness, completeness, and clarity of your answers.

1. (4 pts) Find the derivative of \( f(x) = 4^x - 3^2 + \cos x - \sin x + \log_2 x - \ln 3 \).

2. (6 pts) Let \( f(x) = x^2 - \ln x + 1 \). Find all stationary point(s) of \( f \). Provide exact values for the stationary point(s), not decimals. Note: keep in mind that the domain of \( f \) is \((0, \infty)\).