

MATH 101-09 Quiz #5

Name:.....**ID:**.....

Exercise #1: Give Newton's method as applied to the equation $f(x) = 0$ where $f(x) = x^2 + 2x - 1$. Find the first two iterates x_1 and x_2 starting with $x_0 = 0.5$.

Exercise #2: Find antiderivatives F of

a) $f(x) = e^{2x} + 3 \sin(4x)$

b) $f(x) = \cos(3x) + \sin(x)$ and satisfying $F(0) = 7$.