


DATE: _____

2.4 Rates of Change & Limits – Examples

Ex. 1: Find the slope of the tangent line to the graph of $f(x) = x^2 - 3x$ at $(1, -3)$.

Ex. 2: Find the slope of the normal line to the graph of $f(x) = x^2 - 3x$ at $(1, -3)$.

 **Ex. 3:** Find the equation of the tangent line and the normal line to the graph of $f(x) = x^2 + 2x + 1$ at $(-3, 4)$.
Then, use your graphing calculator to check your answer.