MAT 136 (Calculus I), Quiz 6, Prof. Jim Swift

Name: _____

You may work on this in groups, but turn in your own quiz. (Being here gets 1 free point.) 1. (1 point) Find the derivative of $f(x) = \ln |x^2 - 3x + 1|$

2. (3 points) (a) Find the local linearization of $f(x) = \frac{1}{x}$ at 10.

(b) Use the answer to part (a) to get a decimal approximation to $\frac{1}{11}$, without a calculator and without doing long division.

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