$\begin{array}{c} \text{Math 14} \\ \text{Winter 2009} \end{array}$ Topics for Quiz on Friday 1/23

Not all these topics will be on the quiz, but any of them might be.

Definitions:

- 1. Limit.
- 2. Linear and affine.
- 3. Differentiable.
- 4. Tangent.
- 5. Open set.

Statements of Theorems:

- 1. Chain rule.
- 2. Criterion for differentiability using partial derivatives.
- 3. Inverse function theorem.

Basic Calculations:

- 1. Matrix multiplication.
- 2. Determinants.
- 3. Derivatives.
- 4. Tangent approximations.
- 5. Partial derivatives using chain rule.
- 6. Partial derivatives of implicitly defined functions.