

Name: \_\_\_\_\_

Math 135, Quiz # 3, February 10, 2014

**1.** Let

$$f(x) = \begin{cases} \frac{x^2-9x+18}{x-3}, & x \neq 3 \\ 2 & x = 3 \end{cases}$$

Is  $f(x)$  continuous? Why or why not?

**2. a)** Evaluate  $\ln(e^3)$ .

**b)** Evaluate  $e^0 + \ln(1)$ .

**c)** Solve  $\log_3(5x - 1) - \log_3(10x + 7) + 1 = 0$ .