

# Calculus I, Final Exam (Spring 2020)

ECON 1000

05/15/2020, 8:00 – 10:30

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

Honor code: I, \_\_\_\_\_, have neither given nor received unauthorized help on this exam, and I have conducted myself within the guidelines of the honor code of..... Moreover, I will not discuss the content of this exam until authorized to do so.

**Read all of the following information before starting the exam:**

- Show all work, clearly and in order, if you want to get full credit. I reserve the right to take off points if I cannot see how you arrived at your answer (even if your final answer is correct).
- *Calculators are permitted on the test.*
- Circle or otherwise indicate your final answers.
- This test has XX problems that total to XX points.
- You have XX minutes (X:XX - X:XX) to complete.

## Formula Sheet

- $\begin{vmatrix} a & b \\ c & d \end{vmatrix} = ad - bc.$

- $\begin{vmatrix} a & b & c \\ d & e & f \\ g & h & i \end{vmatrix} = a \begin{vmatrix} e & f \\ h & i \end{vmatrix} - b \begin{vmatrix} d & f \\ g & i \end{vmatrix} + c \begin{vmatrix} d & e \\ g & h \end{vmatrix}.$

**Question 1.** (15 pts)

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**Question 2.** (15 pts)

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