

# Math 1111 - Exam 1

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

Wednesday, March 32, 2000

Time: 60 minutes

Instructor: Leonhard Euler

## Instructions:

- Do not open the exam until I say you may.
- Circle or box your final answer where appropriate.
- All work must clearly and legibly support your answer. Failure to show work sufficient to support your answer will result in the loss of points, even with the correct answer.
- If you run out of room, use the back of the page and indicate this on the question.
- As always, you are expected to exhibit academic integrity during the exam.

## Materials Allowed:

- One calculator than cannot communicate with other devices. You may not share calculators during the exam.

|         |    |    |       |
|---------|----|----|-------|
| Page:   | 1  | 2  | Total |
| Points: | 18 | 26 | 44    |
| Score:  |    |    |       |

1. (6 points) Circle the correct answer. Each part is worth three points.

(a) True or False : This sentence is true if and only if it is false.

(b) True or False : This sentence has an indeterminate truth value.

2. (2 points) Circle your favorite letter:

A. Letter A

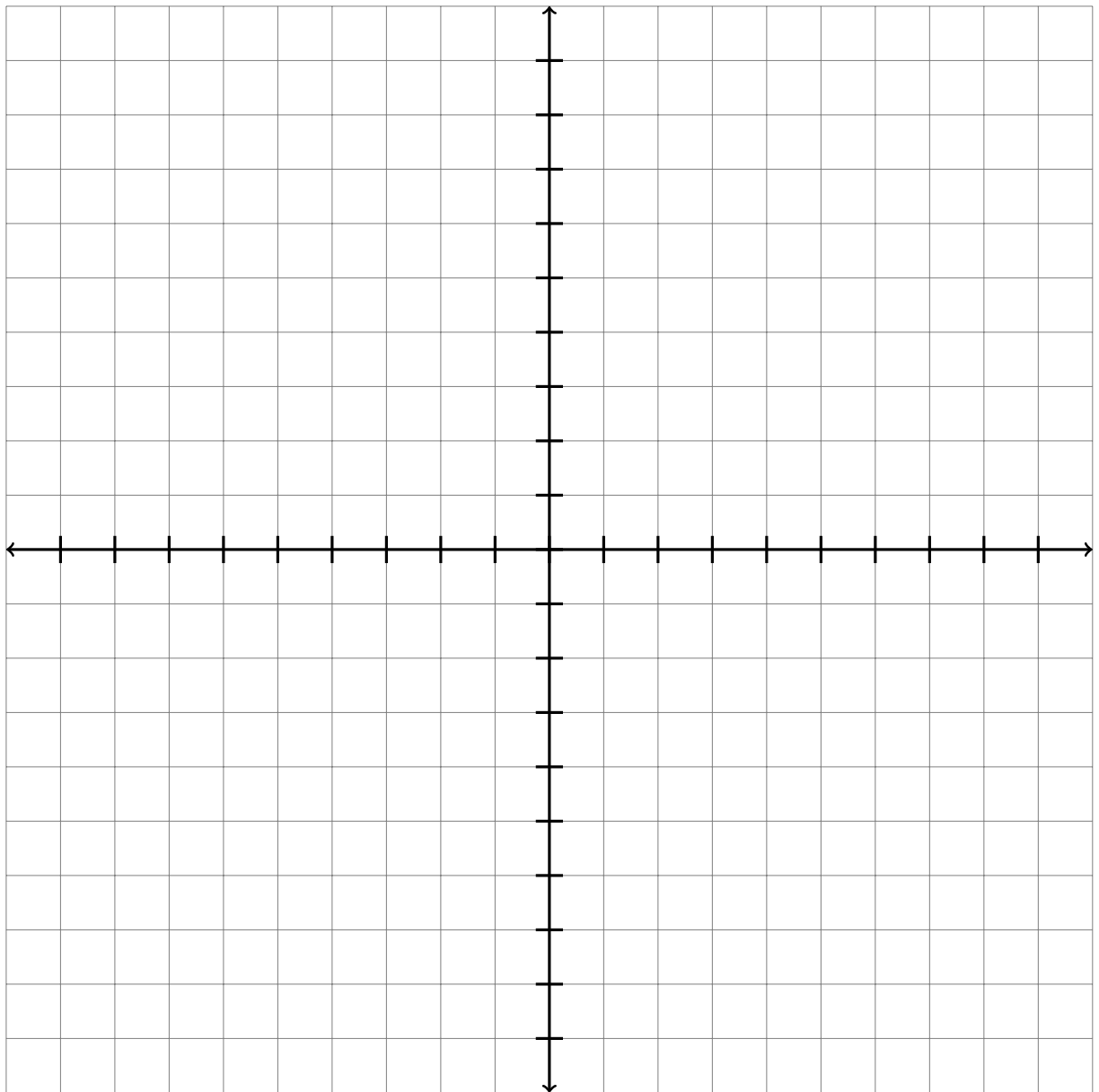
B. Letter B

C. Letter C

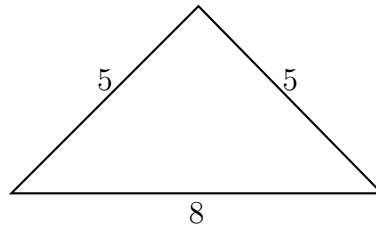
D. Letter D

E. Letter E

3. (10 points) Graph your favorite function below.



4. (10 points) Solve and find the area of the following triangle. Round all answers to two decimal places.



$A =$  \_\_\_\_\_       $B =$  \_\_\_\_\_       $C =$  \_\_\_\_\_      Area = \_\_\_\_\_

5. Solve the following equations.

(a) (8 points)  $2z = 1$

Solution: \_\_\_\_\_

(b) (8 points)  $\begin{bmatrix} a & b \\ c & d \end{bmatrix} \begin{bmatrix} x \\ y \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \end{bmatrix}$

Solution: \_\_\_\_\_