

Math 300 Test 1

Name: _____

You have 50 minutes. All paper notes and books are permitted, but no electronic devices are allowed.

1. (5 pts) What does GIF stand for? What are the advantages and disadvantages of the format?

2. (10 pts) Write L^AT_EX commands to typeset

$$A = \begin{bmatrix} \frac{1}{2} & 1 \\ 0 & 1 \end{bmatrix}$$

3. (6 pts) Write MathML commands to typeset

$$A = \begin{bmatrix} \frac{1}{2} & 1 \\ 0 & 1 \end{bmatrix}$$

4. (10 pts) Write CSS to make all paragraphs have a border that is green, dashed, and 3 pixels thick.

5. (15 pts) Write L^AT_EX commands to typeset

$$y_{\sigma,\mu}(x) = \begin{cases} \sigma & x < 0 \\ \mu & \text{otherwise} \end{cases}$$

6. (5 pts) In a networking context, what does DNS stand for? What does it do?

7. (10 pts) Write L^AT_EX to display the following equations:

$$x = A \cos \pi t$$
$$y = A \sin(\pi t + \phi).$$

8. (10 pts) Write L^AT_EX commands to make the text “Some Things To Remember” appear centered on its own line, in a bold face font that is larger than the default.

9. (14 pts) Write L^AT_EX commands to make the following table.

Some Breeds of Cats	
Breed	Rating
Persian	6
Cool	7
Fat	1
LOL	10

10. (5 pts) How big is an em, and why would you use that unit?

11. (10 pts) Explain what you would do to make L^AT_EX *label* and *refer to* the equation $f(x) = 2x + 5$ for you. Be specific, using example commands as required.