

MAT 123- SAMPLE EXAM #2-FALL 2018

NAME: _____

TA Name: _____

When do you have recitation? _____

*Each numbered question is worth 20 points.

1. Compute each. (All final answers in question # 1 will be integers.).

a.) $\ln e^2 + \ln 1$

b) $\log_{10}(50) + \log_{10}(2)$

c) $2\log_2\sqrt{40} - \log_2 5$

d) $(e^{\ln\sqrt{e}})^2 - e$

e) $\log_2\left(\frac{1}{10} + \frac{1}{40}\right)$

2. Graph $f(x) = 1 - \ln(x + 3)$ on a scaled set of axes.

3. Solve for x : $3^{2x+1} = 5e^{8x}$

4. Solve for x or state no real solution: $\ln(1 - 2x) - \ln x = 3$

5. Solve for x or state no real solution: $\ln(4x) + \ln(x) = -\ln(0.25)$