

ln e⁵² / 52 total points (both parts)

Test #2 (Part 1, No Calculator)

Name: Solutions

Math 71B, Prof. Beydler

Thursday, April 24, 2014

Directions: Show all work. No books or notes. No calculators are allowed for this part. Your desk and lap must be clear (no phones, notebooks, etc.). Please box your answers. When you're finished with Part 1, please turn it in and start Part 2. Good luck!

1. Evaluate each of the following.

a) (1 point) $\ln e^{16} = \boxed{16}$

b) (1 point) $2^{\log_2 999} = \boxed{999}$

c) (1 point) $\log 25 + \log 40 = \log(25 \cdot 40) = \log 1000 = \boxed{3}$

d) (1 point) $\log_2 1 = \boxed{0}$

e) (1 point) $\log_3 135 - \log_3 5 = \log_3 \left(\frac{135}{5}\right) = \log_3 27 = \boxed{3}$