

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

**Math 1100**

**Part I: NO CALCULATORS**

Circle Section Time: 10 or 11

**Quiz 10**

1. [6 points] Solve for  $x$ . (Simplify.)

(a)  $\log_3(27) = x$

(b)  $\log_5(.2) = x$

(c)  $\log_4(2) = x$

(d)  $\log_2(x) = 3$

(e)  $\log_4(x) = 2.5$

(f)  $\log_x(16) = 2$

2. [4 points] Graph  $y = 3^x$ . Label 5 points.

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**Math 1100**

**Quiz 10**

**Part II: CALCULATORS ALLOWED**

3. [3 points] Compute the following, rounding to five decimal places.

(a)  $4e^{-.23540}$

(b)  $\log_3 23,424$

(c)  $\frac{3}{2+8e^3}$

4. [2 points] Explain why  $\log_a(0)$  is undefined.

5. [5 points] If \$1,000 is invested at an interest rate of 5% per year and is compounded quarterly, how much will the investment be worth in 10 years? How much will it be worth if it is continuously compounded?