

Print Name: _____
Math 1100

Quiz 11

Circle Section Time: 10 or 11
Calculators Allowed

1. [5 points] Solve $4 + 3^{5x} = 8$.

2. [5 points] Solve $\frac{50}{1 + e^{-x}} = 4$.

3. [5 points] Solve $\log(3x + 5) = 2$.

4. [5 points] The number of bacteria in a culture is modeled by the function

$$n(t) = 500e^{0.45t}$$

where t is in hours. After how many hours will the number of bacteria reach 10,000?