QUIZ 7 - MATH 112 YOUR NAME:

Read each problem **very carefully** before starting to solve it. Each problem is worth 5 points. It is necessary to show **all** your work. Correct answers without explanations are worth 0 points. GOOD LUCK!!

1. Solve the exponential equation $27^{x+2} = \frac{1}{9}$.

- 2. Calculate the values of the expressions:
 - (a) $\log \frac{1}{1000} =$
 - (b) $\log_{25} 125 =$
- 3. Write the following exponential equations in logarithmic form:
 - (a) $e^y = 5$

(b) $10^x = 7$