QUIZ 8 - 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. An investment earns 8% annual interest compounded quarterly. After how many quarters will it increase by 50% of the original?

2. Expand into a sum/difference of logarithms or contract into a single logarithm as appropriate:

$$\log\left(\frac{\sqrt{x}}{y^3z}\right) =$$

$$\frac{1}{3}\log(x+1) - 5\log(x^2+7) =$$