QUIZ 9 - 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. Compute the following integrals:

(a)
$$\int_0^1 (6x^2 - 4e^{2x})dx =$$

(b) (**Hint**: There is no valid quotient rule for integrals.) $\int_{1}^{2} \frac{(x+1)^{2}}{x^{2}} dx =$

2. Find the area of the region bounded by the curves f(x) = 3x + 3 and $g(x) = -x^2 + 7x$.