## 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 indefinite integral  $\int \frac{(1+\sqrt{x})^2}{\sqrt{x}} dx$ 

2. A company's marginal cost is given by  $MC(x) = \frac{1}{\sqrt{2x+9}}$ . If its fixed costs are 100, find the cost function C(x).

3. Apply integration by parts to compute the integral  $\int x(x-5)^7 dx$ .