

No graphing calculators are allowed on this quiz. Please read each question carefully, follow directions and clearly mark your solutions. **Show your work for full credit and circle your name to get 2 extra credit points.**

1. (5 points) Evaluate

$$\int_0^1 8x(x^2 + 1)^3 dx$$

2. (5 points) Find the area of the region bounded by $y = 9x$ and $y = x^3$.