QUIZ 9

- Show all your work and indicate your final answer clearly. You will be graded not merely on the final answer, but also on the work leading up to it.
- 1. (3 points) Use the Fundamental Theorem of Calculus to find g'(x) if $g(x) = \int_0^{x^2} e^{\sin(t)} dt$.

2. (3 points) Evaluate $\int_0^1 \frac{8}{x^2 + 1} dx$

3. (4 points) Calculate $\int \frac{3+\sqrt{x}+x}{x^2} dx$.