

Quiz #9**Name:** _____**StudentID:** _____**Major:** _____**Time:** 20 minutes.

Justify your solutions and show all your steps. Write down formulae used. Make sure to look on the back side of this sheet.

1. If $f'(x) = 4x^3$, what is $f(x)$?

2. Evaluate the integral: $\int 8x^5 dx$.

3. Evaluate the integral: $\int 6\sqrt[4]{x}dx$.

4. Evaluate the integral: $\int \frac{5}{x^4}dx$.