

## Quiz 3

Name:

Directions: Answer each question to the best of your ability. You may NOT use a calculator. Indicate for each question which method of integration you are using and clearly identify how you apply that method in the problem. Each question is worth 5 points.

1.  $\int \frac{\cos x}{\sin x} dx$

2.  $\int x^2 \cos(x^3 - 1) dx$

3.  $\int x^2 \ln x dx$

4.  $\int \frac{5x+7}{x^2+3x+2} dx$

5.  $\int \frac{x+4}{x^2+8x+7} dx$