

# Quiz #5

Please print your name:

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**Problem 1. (6 points)** Evaluate the following indefinite integrals.

(a)  $\int \frac{dx}{3\sqrt{x}} =$

(b)  $\int \sin(4x) dx =$

(c)  $\int \frac{dx}{3x+1} =$

**Problem 2. (4 points)** Evaluate the following indefinite integral:  $\int x \sin(3x) dx$