

Printed Name _____ Signature _____

Calculus II Quiz #3

Show your work and clearly label your answers on this quiz. *No scrap paper, calculators, or notes are allowed* (or needed). This quiz is scored out of 35 points. (There are 40 points possible.) You have 30 minutes to complete the quiz.

To get credit on a problem, you *must* show work. Even if you can do the work in your head, the point of these exercises is to get you to articulate your thought processes.

Problem 1 (10 pts)

$$\int e^{-4x} \cos(5x) dx =$$

(Hint: both terms have periodic derivatives...)

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Problem 2 (10 pts)

$$\int (\tan(3x))^2 dx =$$

Problem 3 (10 pts)

$$\int (\sin(5x))^3 \cos(5x) dx =$$

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Problem 4 (10 pts)

$$\int \sqrt{36 - 4x^2} dx =$$