

NAME _____ QUIZ IV Due: Friday, Oct. 30
please print clearly MATH 173 25 points

Open book, open notes, but you must do your own work. In particular, no “internet” help.
To receive credit, show all appropriate work.

Neatness, clarity and quality of work will be worth an unspecified number of points.

Simplify! Simplify! Simplify!

Problem 1 is 5 points and problems 2 and 3 are 10 points each.

1. $A = \int e^{x/2} \sin 3x \, dx$

$$2. \int \frac{10x - 2}{x(2x - 1)(x - 2)} dx$$

3. $\int \frac{4x + 24}{(x + 1)(x^2 + 9)} dx$

Extra Credit (5 points) $\int \sin(\ln x) dx$. Do your work on the backside.