

Name: _____

Math 152 Calculus II – Crawford

Take-Home Quiz 3

Due: Friday, March 20 (by 11:30am)

Books, notes, and calculators *are* allowed. You are allowed to work with each other and to get help from the tutors, but you cannot get help from me. ***You must show all your work.*** [Scores will be scaled to 15 points after grading.]

Evaluate the following integrals.

1. (10 pts) $\int \frac{3x^3 + 4x + 4}{x^4 + 4x^2} dx$

2. (10 pts) $\int \frac{1}{x^2 \sqrt{4x^2 + 1}} dx$

3. (10 pts) $\int_0^{\pi/3} (\cos x + \sin x)^2 \cos 2x \, dx$