

Name: _____

Math 152 Calculus II – Crawford

Take-Home Quiz 2

Due: Friday, October 5 (by 2:15pm*)

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.]

*You may turn the quiz in by 9am on Saturday, October 6 without penalty. But it must be submitted via email if you are turning it in after 2:15pm on Friday, October 5. It will not be accepted after Saturday, October 6.

Evaluate the following integrals. Attach additional sheets as needed.

1. (8 pts) $\int \frac{1}{x\sqrt{4x^2 + 1}} dx$ [Section 7.5 #51]

If you have already done the problem, just attach your work. You do not need to re-do it.

2. (8 pts) $\int \frac{x + \arcsin(x)}{\sqrt{1 - x^2}} dx$ [Section 7.5 #73]

If you have already done the problem, just attach your work. You do not need to re-do it.

3. (8 pts) $\int \frac{x^3 - 4x - 1}{x(x - 1)^3} dx$

4. (8 pts) $\int x^3 \ln x dx$