Name: _

Math 152 Calculus II – Crawford

Books, notes, and calculators *are* allowed. You <u>are</u> 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. Attach additional sheets as needed.

1. (8 pts)
$$\int_0^{\pi} t \cos^2 t \, dt$$
 [Section 7.5 #17]

2. (8 pts) $\int \frac{1}{x^2 \sqrt{4x^2 - 1}} dx$ [Section 7.5 #60]

3. (8 pts)
$$\int \frac{4x-4}{x^4-4x^2} dx$$

4. (8 pts) $\int \frac{\sec^6 t}{\tan^2 t} dt$