Name:

You may have 30 minutes to do this quiz. You will need to use your integral tables. Other than that, you should not use any books or notes while you do the quiz nor discuss the quiz with anyone. You may not use your calculator. Show your work clearly.

1. Determine which formula from the integral tables is the best match for each of these integrals. Write down the number of the formulas. Do not do anything more.

   a. \( \int \frac{\sqrt{6x-x^2}}{x} \, dx \)

   b. \( \int \frac{4x^2}{\sqrt{x^2-16}} \, dx \)

2. Evaluate (i.e. do completely) \( \int_{4}^{5} \frac{4x^2}{\sqrt{x^2-16}} \, dx \).

Self Check: This slightly more difficult question will not count for your quiz score and you may use as much time as you want to do it. Questions with this level of difficulty will be on the next test. Write your work on the back of this sheet. Evaluate \( \int \frac{4x^2}{\sqrt{9x^2-16}} \, dx \).

Self evaluation: (Circle) Rate your level of understanding of the material on the quiz:

Mastery    Tentative    Unsure