

# MidTerm Exam II

name \_\_\_\_\_

# ~~SAMPLE~~

QSci 292

Do 2 of the 4 problems in part A and 3 of the 6 in part B. 10 points for each correct problem. 50 points total in this exam. Star (\*) the problem numbers you want corrected on both the exam sheet and your answer sheet. Write your name on everything you turn in.

• Part A: do 2 of 4

1.  $\int 17 t e^t dt$

2.  $\int \sqrt{4z^2 - 9} dz$

3.  $\int \frac{21y}{3+y} dy$

4.  $\int (5u^2 + 1) \sqrt{u} du$

• Part B: do 3 of 6

5.  $\int \frac{dt}{\sqrt{(t^2 - 16)^3}}$

6.  $\int w \cdot \sin(7w) dw$

7.  $\int v^{-1/2} e^{\sqrt{v}} dv$

8.  $\int \frac{1}{9x^2 + 36} dx$

9.  $\int t \cdot \sec(t^2) \cdot \tan(t^2) dt$

10.  $\int e^x \cdot \sin(e^x) dx$