

Math 151**Quiz 9**

Show all work in a neat and organized fashion. Clearly indicate your answers.
10 points possible.

1. (1 pt.) Who won: Colby, Keith, or Tina?

2. (9 pts.) **Find three of the following four integrals.** (3 pts. each) Clearly indicate the ones you want graded, or I will pick your worst three.

(a) $\int_1^4 f(t) dt$ where $f(t) = \begin{cases} 3t, & \text{if } t < 3 \\ 5t^2, & \text{if } t \geq 3 \end{cases}$

(b) $\int t \sin(t^2) dt$

(c) $\int \frac{1}{(1-3t)^6} dt$

(d) $\int x^2(1+7x^3)^5 dx$