

This is a take-home quiz. You might want to review the techniques of *Integration by Parts* and *Partial Fractions* from your Calculus book (so the quiz is also open book). **Be sure to show your work!**

DUE: Monday

Evaluate the following integrals (Use additional paper to show your work):

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

2. $\int x^3 e^{2x} dx$

3. $\int \frac{1}{(t+4)(t-1)} dt$

4. $\int \cos(\ln(x)) dx$

5. $\int e^{2x} \cos(3x) dx$

6. $\int \sin^{-1}(x) dx$