

**Math 106 Honors (Quiz 9)**

Name \_\_\_\_\_.

Make sure you show all your work!

1. (20 points) Evaluate the following integrals:

(a)  $\int x e^{4x} dx$

(b)  $\int \frac{1}{2x^2 - 4x + 52} dx$

(c)  $\int x^2 e^{x^3} dx$

(d)  $\int \frac{1}{\sqrt{9-x^2}} dx$

(e)  $\int x^8 \ln x dx$