Name:MAT 296		Quiz 2: Integration by Part Fall 201
<b>Problem 1:</b> Integrate the following:	$\int (\log x)^2  dx$	

**Problem 2:** Integrate the following:

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

**Problem 3:** Integrate the following:

$$\int e^x \sin(2x) \, dx$$