Quiz 3	Name:
Improper Integrals	
Math 408D:	
Instructor: Athil George	

Problem 1. Does the following integral converge or diverge? If it converges, find the convergent value.

$$\int_0^\infty e^{-x} \cos(x) dx$$

Problem 2. Does the following integral converge or diverge? If it converges, find the convergent value:

$$\int_{1}^{\infty} \frac{2}{\sqrt{x^3}} dx$$