

Name _____

Homework 8
section 7.8

Determine whether each of the following integrals converges or diverges. Explain your reasoning.

1. (5) $\int_1^{\infty} \frac{2 + \cos \phi}{\phi^2} d\phi$

2. (5) $\int_0^{\infty} \frac{1}{e^z + 2} dz$

$$3. (5) \int_2^{\infty} \frac{dt}{\sqrt{4+t^2}}$$

$$4. (5) \int_1^{\infty} \frac{x+e^x}{xe^x} dx$$