

QUIZ 6

Time: 15min

1. Use comparison to determine whether each of the following integrals is convergent or divergent:

a) $\int_1^{\infty} \frac{1}{\sqrt{x^3 + 1}} dx$

b) $\int_1^{\infty} \frac{\cos^2 x}{1 + x^2} dx$

Each part is worth 5 points.