MATH 19 QUIZ 7 SOLUTION

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1. (a) By integral test, the series diverges, since $\int_1^{+\infty} \frac{1}{x} dx = \ln x \big|_1^{+\infty} = +\infty$.

(b) We have
$$\frac{1}{\sqrt{n^4 + 1}} < \frac{1}{n^2}$$
By comparison test, the series converges.

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