

Problem Set 7

MATH 16B Spring 2016

14 April 2015

Decide whether the sum converges or diverges. If it is a convergent geometric series, find the sum.

Exercise.

$$\sum_{n=1}^{\infty} \frac{1}{n^3}$$

Exercise.

$$\sum_{n=1}^{\infty} \frac{5 \cdot 3^{n/2}}{2^n}$$

Exercise.

$$\sum_{n=2}^{\infty} \frac{1}{n \ln(n)^2}$$

Exercise.

$$\sum_{n=1}^{\infty} e^{-n}$$

Exercise.

$$\sum_{n=1}^{\infty} \frac{n}{2^n}$$