

Homework # 26.

• Read pp. 129-133.

• There will be a quiz on Friday. Need to know all definitions and statements of theorems mentioned on handouts for homeworks 24 and 25.

• Do the following problems:

1. For each of the functions below decide if the function is uniformly continuous on a given interval, by proving uniform continuity or by using thm 4.4.5.

a) $y = \frac{1}{x^2}$ on $[1, 3]$,

b) $y = \frac{1}{x^2}$ on $(0, 1]$;

c) $y = \frac{1}{x^2}$ on $[1, +\infty)$.

2. Do 4.4.9 (a), 4.4.11

3. Graduate student problem: 4.3.11 (c), (d).