# Homework 22 (Chap. 11.7), 57.00/60.00 (95.00%)

April 5, 2020

### Problem 9 score: 7/10[1]

Strictly speaking, the fact that $\frac{\pi^2}{(2n+2)(2n+1)} < 1 \; \forall n \in \mathbb{N}$ does NOT imply that $b_n$ is decreasing. (what about $n = 0$?)

Also, why $\lim_{n\to\infty} \frac{\pi^2}{(2n)!} = 0$? I do not quite understand your explanation.

### Problem 14 score: 10/10

good

### Problem 24 score: 10/10

good

### Problem 25 score: 10/10

good

### Problem 33 score: 10/10

good

### Problem 36 score: 10/10

good

[1] similar problems: 10,11