

MATH 3100 – Homework #3

posted September 8, 2021; due by 5 PM on Wednesday, September 15, 2021

Section and exercise numbers correspond to the online notes. Assignments are expected to be **neat** and **stapled**. **Illegible work may not be marked.**

Required problems

1. §1.4: 10
2. §1.4: 15
3. §1.4: 17
4. §1.4: 23
5. §1.5: 3
6. Suppose $b_n \rightarrow B$, where $B \neq 0$. Show that there is an $N \in \mathbf{N}$ such that $|b_n| \geq |B|/2$ for all $n \geq N$.

Recommended problems (NOT to turn in)

§1.4: 11, 20, 21, 22
§1.5: 7(a)