

M405 - HOMEWORK SET #3- DUE 02/22/19

- pg. 48-50: 2, 3, 6, 9
- pg. 55-56: 2, 3, 7, 10
- Let $\{x_i\}, \{y_i\}$ be convergent sequences in \mathbb{R} . Prove that

$$\left(\lim_{i \rightarrow \infty} x_i\right) \cdot \left(\lim_{i \rightarrow \infty} y_i\right) = \lim_{i \rightarrow \infty} x_i \cdot y_i$$