# Baby Rudin Chapter 3 Exercise 1

Prove that the convergence of $\{s_n\}$ implies convergence of $\{|s_n|\}$. Is the converse true?

**Solution:** If $\{s_n\}$ converges, $\exists s \in \mathbb{R}$ s.t. $\forall \varepsilon > 0$, $\exists N > 0$ s.t. $\forall n \geq N$, $|s_n - s| < \varepsilon$. Given $\varepsilon > 0$, choose $N$ as above. Using the reverse triangle inequality, $\forall n \geq N$, $||s_n| - |s|| \leq |s_n - s| < \varepsilon$. This means that $\{|s_n|\}$ converges to $|s|$.

To prove that the converse is false, let $s_n = 1$ if $n$ is odd and $s_n = -1$ if $n$ is even. Then $\{s_n\}$ does not converge, but $|s_n| = 1$ for all $n$, so $\{|s_n|\}$ converges to 1.

# Rudin Chapter 3 Solutions Youtube

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