Here are some additional problems from Spivak for the first 5 chapters.

- Chapter 1: 3, 5, 13, 18. Prove the triangle inequality and reverse triangle inequality.
- Chapter 2: 3, 5, 6, 13, 14, 15,
- Chapter 3: 11, 12, 14. Prove that $\max(f, g), \min(f, g)$ are functions if $f, g$ are. Let $f \in Y \times Z$ and $g \in X \times Y$. Can $f \circ g$ be a function if one of $f$ and $g$ are not? Explain.
- Chapter 4: 3, 4, 19, 20.
- Chapter 5: 1, 2, 3 (all these first three questions with proofs), 10, 16, 17, 26, 31