- 4.3.11 (a) For $A = \mathbb{Z}$, the floor function, [x]
 - (b) For A = (0, 1), the function $f(x) = \begin{cases} \infty & \text{if } x \in (0, 1) \\ 0 & \text{otherwise} \end{cases}$
 - (c) For A = [0, 1], the function $f(x) = \begin{cases} \infty & \text{if } x \in [0, 1] \\ 0 & \text{otherwise} \end{cases}$
 - (d) For $A = \{\frac{1}{n} : n \in \mathbb{N}\}$, the function $f(x) = \begin{cases} \left[\frac{1}{x}\right] & \text{if } x \in (0,1) \\ 0 & \text{if } x \notin (0,1) \end{cases}$.