Exercise Abbott 7.4.5:

Exercise Abbott 7.5.1:

Exercise Abbott 7.5.4:

- **Exercise Supplemental 1:** 1. Use Theorems 7.3.2 and 7.4.1 to show that if f is continuous on [a, b] except at finitely many points, then f is Riemann integrable. The proof is by induction!
 - 2. Define *g* on [0, 1] by

 $g(x) = \begin{cases} 1 & x = 1/n \text{ for some } n \in \mathbb{N} \\ 0 & \text{otherwise.} \end{cases}$

Determine (with proof) if g is Riemann integrable or not.