

Homework Solutions

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Exercise 2

- (a) Find the area under the graph from 1 to 2. That is a triangle with base 1 and height $\frac{1}{2}$, so the area is $\frac{1}{4}$. Thus, $\frac{1}{4}$ of the time, a person waits more than 1 minute for the elevator.
- (b) Based on the result in part (a), 1 is the third quartile. Therefore, the median must be less than 1. (In fact, it is $\frac{2}{3}$.)