**ME5331 Homework #1**

**LastName, FirstName, 1324**

**September 6, 2023**

*I promise that I did all the work by myself without help from other students. I understand that violating this promise will result in automatic 0 point and penalties as severe as expulsion from UTA.*

**Problem 1**

$$f\left(x\right)=a\_{0}+\sum\_{n=1}^{\infty }\left(a\_{n}\cos(\frac{nπx}{L})+b\_{n}\sin(\frac{nπx}{L})\right).$$

(Repeat for each problem on a separate page. Honor statement required for the first page only.)