HW 4 • FALL 2019 • PROF. BOYLAND

- 1. Let f(t) = t on $[0, \pi]$.
 - (a) Compute the sine series of f.
 - (b) Compute the cosine series of f.
- 2. Let $f(t) = \sin(3t)$ on $[0, \pi]$.
 - (a) Compute the sine series of f.
 - (b) Compute the cosine series of f.