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