

1. Chapter 1, Problem 1.3-1.

Hint: You can write each new signal as a combination of the previous ones. For example,  $f_2(t)$  can be written as the sum of “ $f(t)$  shifted to the right by 1” and “ $f_1(t)$  shifted to the right by 1”, i.e.,  $f_2(t) = f(t - 1) + f_1(t - 1)$ .

2. Chapter 1, Problem 1.3-2, Part (c).
3. Chapter 1, Problem 1.3-3, Part (e).
4. Chapter 1, Problem 1.4-1.
5. Chapter 1, Problem 1.4-2, Part (b).
6. Chapter 1, Problem 1.4-4, Parts (a), (d).
7. Chapter 1, Problem 1.4-5, Parts (d), (h).