

Problem 36

In each of Problems 35 through 38, use the result of Problem 34 to find the Laplace transform of the given function.

$$f(t) = \begin{cases} 1, & 0 \leq t < 1, \\ -1, & 1 \leq t < 2; \end{cases}$$

$$f(t+2) = f(t).$$

See Figure 6.3.8.

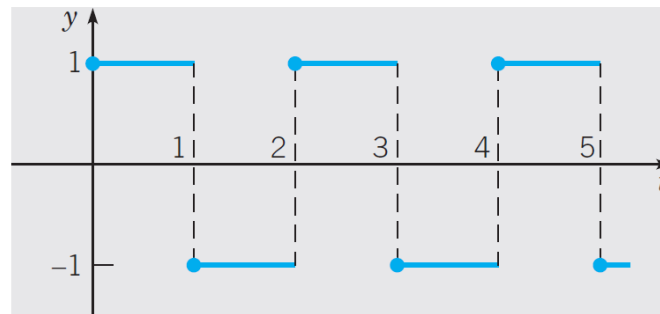


FIGURE 6.3.8 The function $f(t)$ in Problem 36; a square wave.