

### Exercise 6.23

**L** Answer (c).

In order to recover the original signal  $x$  from  $y$ , we could use the system shown in the figure below, where  $g = \mathcal{F}^{-1}G$  and

$$G(\omega) = \begin{cases} 2 & |\omega| < \omega_b \\ 0 & \text{otherwise.} \end{cases}$$

