## Problem 2.4

Continuing with Problem 2.3, explain how the rule of Eq. (2.32) can be satisfied by the signal g(t) described therein.

## Solution

Since g(t) is real valued, it follows that the integral  $\int_{-\infty}^{\infty} G(f)df$  must likewise be real valued. For this condition to be satisfied, the imaginary part of G(f) must be an odd function of f.