Given,

Pare-envelope of 
$$g(t)$$
  $g_{+}(t) = g(t) + j\hat{g}(t)$ 

$$\hat{g}(t) = g(t) \times \frac{1}{\pi t}$$

$$\frac{1}{\pi t} \leftrightarrow -j sgn(f)$$

$$\frac{\sin at}{at} \longleftrightarrow \frac{\sin^2(at/2)}{at/2}$$

$$g_{+}(t) = \frac{\sin^{2}(\pi t/2)}{\pi t/2}$$