$$F(iw) = \frac{1}{iw - (-s)}$$

$$F(iw) = i\pi \left[\delta(w+2\pi) - \delta(w-2\pi)\right] + 1$$

=
$$2 R \delta(v) + e^{3\tilde{i}v} \cdot \frac{1}{2} \cdot 2 R \delta(w) - \frac{\tilde{i}^3}{\tilde{i}w} - \frac{\tilde{i}^3}{\tilde{i}w} \cdot e^{3\tilde{i}w}$$

=
$$2\pi\delta(w) + \frac{1}{2}e^{3iw}$$
. $2\pi\delta(w) - i^2 = \frac{1}{iw-0} - i^2e^{3iw} = \frac{1}{iv-0}$

$$= 1 + \frac{1}{2} e^{3t} \cdot 1 - \hat{1}^{2} \cdot e^{0t} - \hat{1}^{2} e^{0t}$$

$$= 1 + \frac{1}{2}e^{-3\epsilon} - (-1) - (-1)e^{-3\epsilon}$$

$$= 2 + \frac{3}{2}e^{-36}$$