2.03 
$$h(t) = 0$$
 de  $+\infty$ 

b) Lat  $+\delta$ 
 $\int_{0}^{\infty} \int_{0}^{\infty} \int_{0}^$ 

 $=\frac{2}{(S+2)(S^2+4)}=\frac{A}{S+2}+\frac{BS+C}{S^2+4}=$ 

Z(+) = /4 · e 2 + O(+)

f (+) = 1/4 Sin 2+ O(+)

 $g(t) = \frac{1}{4} \cos 2t O(t)$ 

 $y(t) = \frac{1}{4} \left( e^{-2t} + \sin 2t - \cos 2t \right) o(t)$ 

 $=\frac{1}{4}\frac{1}{8+2}+\frac{1}{4}\frac{2-S}{8^2+4}=\frac{1}{4}\frac{1}{5+2}+\frac{1}{4}\frac{2}{5^2+2^2}+\frac{1}{8}\frac{S}{8^2+2^2}$ 

Z(s) F(s) G(s)