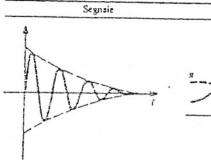
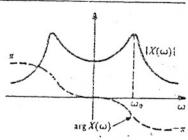
Tabella 3.1. Esempi di spettri

| Segnale | Spettro |
|---------------------------------------|--|
| Aδ(r) | Α |
| A | 2πλδ(ω) |
| e lwo! | 2 κδ (ω − ω ₀) |
| $cos(\omega_0t + \varphi)$ | =[5(w+w0)="+5(w-w0)="+] |
| $\sin(\omega^0(+h))$ | 1x[-δ(ω+ω0)e-1+5(ω-ω0)e+] |
| Σμ _{η ε} -jnω _θ ι | $2\pi \bar{\Sigma} \mu_n \delta(\omega - n\omega_0)$ |
| 1 | 41/4 |
| | $\pi/2$ $ X(\omega) $ |
| | |
| 1 | |
| e sees | $mgX(\omega)$ |
| $x(t) = e^{-st}v(t)$ | $X(\omega) = \frac{1}{a + j\omega}$ |
| 4 | 1/a2 |
| | |
| | |
| | |
| | |
| 1 | $2 \operatorname{rg} X(\omega)$ |
| | |
| $x(t) = te^{-at}u(t)$ | $X(\omega) = \frac{1}{(a+j\omega)^3}$ |
| 4 | A |
| | 2/a |
| /\ | |
| | |
| | |
| - | |
| 1 | |
| $x(t) = e^{-s t }$ | $X(\omega) = \frac{2a}{a^1 + \omega^2}$ |

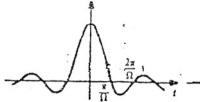


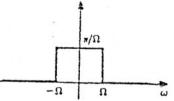


Spettro

4)
$$x(t) = e^{-at} \sin \omega_0 t \ u(t)$$

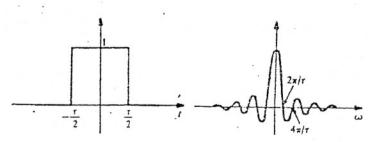
$$X(\omega) = \frac{\omega_0}{(a+j\omega)^2 + \omega_0^2} \qquad a > 0$$





5)
$$x(t) = \frac{\sin \Omega t}{\Omega t}$$

$$X(\omega) = \begin{cases} \pi/\Omega & |\omega| < \Omega \\ 0 & altrove \end{cases}$$



6)
$$x(t) = \begin{cases} 1 & \text{itl} < \tau/2 \\ 0 & \text{airrove} \end{cases}$$

$$X(\omega) = r \frac{\sin(\omega r/2)}{\omega r/2}$$

