

1. brivlu oscillator - solection 2 (complex mimbers) i + 26 i + w x = To u cos It x(t) = Re[2t]=> $\frac{1}{2} + 26 + \frac{1}{2} + \frac{1}{2} = \frac{1}{10} = \frac{1}$ because Re [$\frac{1}{2}$] = Re [$\frac{d^2}{dt^2}$] = $\frac{d^2}{dt^2}$ Re($\frac{1}{2}$) = $\frac{1}{2}$ Search for Conticular solution, spt) as Pe[2pt] and quess 2p(t)=6 ei 2t. One replaces $(-52^2 + 2i6-52 + w^2)_{p}^2 = \frac{F_0}{m} e^{i-5xt}$ (4) $\frac{1}{2}p(t) = \frac{\frac{1}{m}e^{iSt}}{w^2 - 52^2 + 2ibS2}$ (6) septi = Pe [2p(t)] => $x_p(t) = \frac{F_0 \log \cos xt + i \sin xt}{(w^2 - x^2)^2 + 46^2 x^2} (w^2 - 2^2 - 2ibx)$ $= \frac{F_0}{m} \left[\frac{(\omega^2 - \Sigma^2) + \sin \Sigma t}{(\omega^2 - \Sigma^2)^2 + 46^3 \Sigma^2} \right]$ $= B(\Omega) \left[(\omega^2 \Omega^2) \cos \Omega t + 2b \Omega \sin \Omega t \right]$ Vhu-2-22)2+462-22

2. Resonance curve Curba de rezonanta

$$B(\Omega) = \frac{Fo}{mN/w^2 - \alpha^2 Y} \cdot \frac{14b^2 \cdot 2^2}{4b^2 \cdot 2^2} \cdot \frac{Fo}{m\sqrt{4b^2}}$$

$$f(\Omega) = \frac{24}{4} \cdot \frac{4(4b^2 - 2w^2)}{4b^2 \cdot 2^2} \cdot \frac{2^2 + w^4}{4b^2}$$

$$B = \frac{B}{B} \text{max} \Rightarrow f(\Omega) = -2b^2 + w^2; \quad (w^2 > 2b^2 \text{ and})$$

$$Clase = \frac{2}{2} \cdot \frac{1}{2} \cdot \frac$$