OTTO THE PARTY OF THE PARTY OF

$$-\cos^2 + i\cos x + \cos^2 = 0$$

$$\cos^2 + i\cos x + \cos^2 = 0$$

$$\sin^2 + i\cos x + \cos^2 =$$

	7
It will oscillate at angular frequency of and	
(< Co) with an amplitude which decreases	
Exporer Gally.	
Honey Dangin	
This occurs when \frac{7}{2}\wo -> Q \equiv{2}	
lets write xx = (2) - coo2 this is real.	
$\omega = i \frac{\lambda}{2} \pm i \lambda^*$	
0-12-10	
$i\omega t = -(\frac{\lambda}{2} \pm 8^{4})t$	
Will a company of the	
P(t) = Be-(2+19)+ + Ce-(2-19)+	
both terms deray with no oscillations, all	
exporentials que real.	
Critical Danning	
Critical Damping This happens when Q=0.5. Then Q=ix.	_
	9
Y=Aei4extz	
101 11-8 Jai 311-0 -130-26	
$\Psi = Re(\Psi) = A\cos(\theta e^{-\frac{\lambda t}{2}})$ $\Psi = -\frac{\lambda}{2}A\cos(\theta)e^{-\frac{\lambda t}{2}} = -\frac{\lambda}{2}\Psi.$	
$\Psi = -\frac{1}{2}A\cos(\theta)e^{-\frac{1}{2}\theta} = -\frac{1}{2}\Psi$	
San 100 5 1 4 A CONTONO - 201 2 2 5 5 A.	
We correct use this as our final solubin	
as we canot specify 4(+=0) and 4(+=0)	
Seprattey.	
V = (A+Bt)e- 2	-0
h= (11,00)6	

Consider a system with a given Wo and a variable Q. T = time for amplifuele 60 falling by a factor of e. Then plot works. Q. light - amp = $\alpha e^{-\delta t/2}$... $\tau = \frac{2}{8}$ $\cos \tau = \frac{2}{8}$ Heavy - amp = Be- 8/2 + Ce-8/2 == = = (7.+ 2)

Wor A 1 0.5 0 heavy