











```
14)
 \ddot{\chi} + 2 \ddot{\chi} + 2 \chi = 0
{e-t car t, e tin t} {e(-1+i)t (-1-i)t}
 X(t) = e^{t} (ax t + utin t)
 et (cort + utit) = C, et cast + C, et int
 C= 1
 et (car t + utn t) = Ge (-1+i)t + C2e (-1-i)t
 et (cont + uint) = Clettit + Chet -iz
                   = e-t (c, eit + c, e-it)
                   = e-t (c, (cox t + i ven t) + (2(cox (-t) + vein(-t))
                   = et (c, (car t + 2 vin +) + C, (cos + - 1 vin (t))
                   = et (q cost + G i sint + cg cont - Cg; rint)
                   = et (cu(t)(g, + c) + i sin(x)(g- g)
 C_1 + C_2 = 1
 i(c, - c) = 1
  ? c, - î c, = 1
                                    C= 2(1 - 2)
 C2 = 2(1+i)
```



