{ C = constant of integration}

at t=0 -> {*Pythagoras, see drawing 2*}  
this applied:

0 = (since left side is multiplied by t which is 0)

C =

{ *log rule used: log(A)-log(B) = log()* }

X = { }

X = + C { C = constant of integration}

at t=0 -> X = 0 {se*e drawing 1*}  
this applied:

0 =

C = { since }