How to cooling a beer in refrigerator			Four equations who I states the cooling formula ekv(4). If you differentiate the temp T1	
$A := .05^2 \pi \cdot 2 + $	$.05 \cdot \pi \cdot 2 \cdot .25$ The area on beer	with re	espect to time, you get	
cp := 4225	Specific captivity in the beer	the be	the beer, set eqv (2) = eqv (3) . And you got eqv (4). This principle I believe you can attach on radiation too.	
$\alpha := 5.8$	Convection constant	princi		
m := 0.5	Mass of the beer	believ radiat		
$k := \frac{\alpha \cdot A \cdot 3600}{cp \cdot m}  \mathbf{t}$	Calculation a constant 3600 gives he time in hours			
		(1)	$\Delta Q = m \cdot cp \cdot \Delta T$	
T0 := 20 Tem	perature of the beer		ΔΤ1	
Tmin := 3 Te	Temperature of the	(2)	$P = m \cdot cp \cdot \frac{\Delta T}{\Delta t}$	
refrigerato	frigerator	(3)	$P = \alpha \cdot A \cdot (T2 - T1)$	
Given		(4)	T1' = $\frac{\alpha \cdot A}{m \cdot cp} \cdot (T2 - T1)$	

 $\frac{d}{dt}T(t) = k \cdot (Tmin - T(t))$ The differential equation, a linjear diff of first order..

T(0) = T0	The initial temp of the beer
T := Odesolve(t, 4)	Solves the equation about 4 hours

