16)	3 = 100 - 4 > 100 - 4 3 100 - 4 3 = 3 t
1(0)	2€ 100-4 100-4
	du: -dy
	- (- du)
	-lu/100-y) = t + C.
	h 1100-yl = Cz - t
	100-y= e e = = = ===
	100-y= Cye*
	y= 100 - Cuet
	x y6)=10=100-C,(1), Cy=90, y=100-90et (+A)
	V> \
	15 Y(0) = 135 C4 = - 85 A = 100 + 82 6
(F)	G7°F let H= heat/energy/temp
	Newtons law of cooling/besty: the rate of
	change (2#) of a body is prepart and to
	the difference between the temperature of
	the bed little surrounders
) = k(H-67)
	H-67 NH = KOŁ OT-H)
	h H-67 = kt +C,
	The state of the s
	H-67 = C3ekt 167-H = ec2ekt = C3ekt
	$H-67$: $e^{i} = C_{2}e^{i}$ $H-67$: $e^{i} = C_{3}e^{i}$ $H-67$
	H(0)=36=Ce+67 H=67-Cye
	C=-31) H(0)=36=67-Cze°
*10.00	H(E): 67-31eth
€) @ t=4	H(1)=43=67-31ek +(1)=67-31ek=43
H(4):67-31:	31ex= 24 -31ex= -24
**************************************	= Z4/2;
	k= (学)=> H(+)=67-31e L(部) と-L(部)