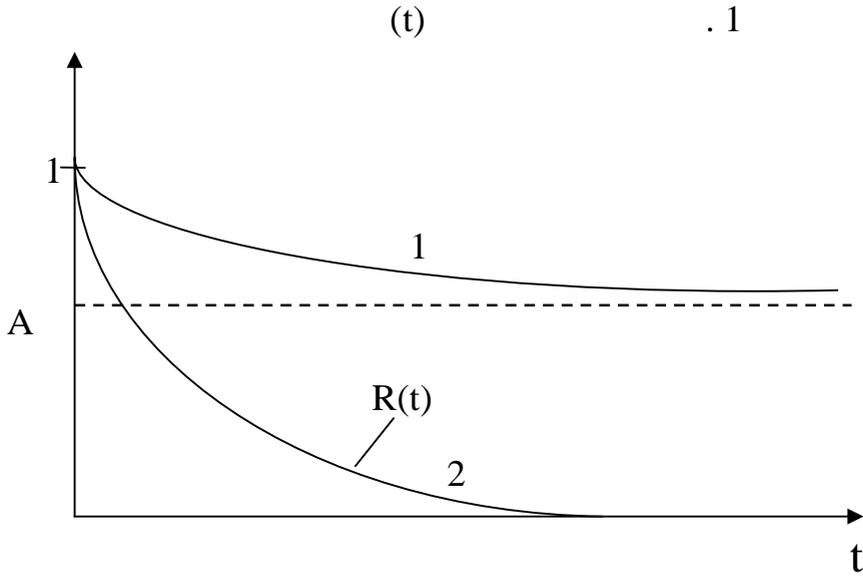


$$F(t) = R(t)$$

$$F(t) = R(t)$$



$Q(t) -$
 t
 $- 1$
 $- 2$
 (t)
 (t)
 $(t) + Q(t) = 1$
 (1)
 $Q(t) < F(t)$ (2)
 $Q(t)$
 $F(t)$
 $Q(t) = F(t) -$

$\Lambda(t) -$ t : ,
 $\Lambda(t) dt$ [t, t+dt) , t.
 $r(t)dt$ [t, t+dt) , (. . .)
 $r(t)dt,$ t. $\Lambda(t)dt$
 $\Lambda(t) \neq r(t)$ t, . . . [0, t]
 $\Lambda(t)$ $r(t)$
 $t. \Lambda(t) = r(t)$.

$r:$
 $r = \Lambda$ $r = c$ st (3)

$W(t) -$ t: ,
 $\mu(t) -$: ,
 $t=0$,
 t.

$\mu(t) = m(t)$:
 $\mu(t) = m(t)$

$\mu(t) = m(t) = 0$ (4)

$\mu(t) = m(t) - (m = c \text{ st})$

$V(t) -$:
 t , $t=0.$

$$= + \quad (5)$$

$$- : \dots = + : = \quad (6)$$

1. ()
2. .
3. .
4. ,

$$\Lambda = r$$

^

$$, \quad r(t) = \frac{f(t)}{1-F(t)} \quad r = \Lambda = \text{c nst}$$

$$\Lambda = \frac{\partial F / \partial t}{1-F(t)}; \quad \Lambda dt = \frac{\partial F}{1-F(t)}; \quad \int_0^t \Lambda dt = -\ln[1 - F(t)] \quad \int_0^t$$

$$\Lambda t = \ln \frac{1-F(0)}{1-F(t)} \quad ; F(0)=0 ;$$

$$\Lambda t = -\ln(1-F(t)) ; R = 1 - F(t) = e^{-\Lambda t};$$

$$F(t) = 1 - e^{-\Lambda t}; f(t) = \Lambda e^{-\Lambda t};$$

$$= \int_0^{\infty} t \Lambda e^{-\Lambda t} dt = \frac{1}{\Lambda}; \quad (7)$$

\wedge

$$t = \frac{1}{\wedge} \quad F = (1 - e^{-1}) = 0.63 \quad (8)$$

$$F(t) = 0,63$$

$$G(t) = 1 - e^{-\mu t}$$

$$g(t) = \mu e^{-\mu t}$$

$$= \int_0^{\infty} t \mu e^{-\mu t} dt = \frac{1}{\mu}; \quad (9)$$

$$\wedge \mu$$

$$G(t) = 0.63$$

$$\wedge = \frac{1}{t} \quad F(t) = 0.63, \quad \mu = \frac{1}{t}$$

t

$$Q(\infty) = \lim_{t \rightarrow \infty} \frac{\mu}{\mu + \wedge} = \frac{\mu}{\mu + \wedge} \quad (10)$$

$$A(\infty) = \lim_{t \rightarrow \infty} \frac{\wedge}{\mu + \wedge} = \frac{\wedge}{\mu + \wedge} \quad (11)$$

	$r(t)=\lambda ; R(t)= e^{-\lambda t}$ $F(t)=1-e^{-\lambda t}$ $f(t)= \lambda e^{-\lambda t}$ $=\frac{1}{\lambda}$	$r(t)=\lambda ; R(t)= e^{-\lambda t}$ $F(t)=1-e^{-\lambda t}$ $f(t)= \lambda e^{-\lambda t}$ $=\frac{1}{\lambda}$
	$m(t)=\mu$ $G(t)= 1 - e^{-\mu t}$ $g(t)= \mu e^{-\mu t}$ $=\int_0^{\infty} t \mu e^{-\mu t} dt = \frac{1}{\mu}$	$m(t)=\mu=0$ $G(t)=0$ $g(t)=0$ $=$
	$Q(t)= \frac{\lambda}{\mu+\lambda} [1- e^{-(\lambda+\mu)t}]$ $A(t)= \frac{\mu}{\mu+\lambda} + \frac{\lambda}{\mu+\lambda} e^{-(\lambda+\mu)t}$ $\omega(t)= \frac{\lambda\mu}{\mu+\lambda} + \frac{\lambda^2}{\mu+\lambda} e^{-(\lambda+\mu)t}$ $V(t)= \frac{\lambda\mu}{\mu+\lambda} [1- e^{-(\lambda+\mu)t}]$ $W(0,t)= \frac{\lambda\mu}{\mu+\lambda} t +$ $+ \frac{\lambda^2}{(\mu+\lambda)^2} [e^{-(\lambda+\mu)t}]$ $V(0,t)= \frac{\lambda\mu}{\mu+\lambda} t -$ $- \frac{\lambda\mu}{(\mu+\lambda)^2} [e^{-(\lambda+\mu)t}]$ $\frac{dQ(t)}{d(t)} = -(\mu + \lambda)Q(t) + \lambda ;$ $Q(0)= 0$	$Q(t)= 1-e^{-\lambda t}= F(t)$ $A(t)= e^{-\lambda t}=R(t)$ $\omega(t)= \lambda e^{-\lambda t}$ $V(t)=0$ $W(0,t)= 1-e^{-\lambda t}= F(t)$ $V(0,t)=0$ $\frac{dQ(t)}{d(t)} = \lambda Q(t) + \lambda ; Q(0)= 0$
	$Q(\infty) = \frac{\lambda}{\mu+\lambda} = \frac{1}{1+}$ $A(\infty) = \frac{\mu}{\mu+\lambda} = \frac{1}{1+}$ $W(\infty) = V(\infty) = \frac{\lambda\mu}{\mu+\lambda} = \frac{1}{1+}$ $\frac{Q(t)}{Q(\infty)} = 0.632 \quad t = \frac{1}{\mu+\lambda}$	$Q(\infty) = 1$ $A(\infty) = 0$ $W(\infty) = V(\infty) = 0$ $\frac{Q(t)}{Q(\infty)} = 0.632; t = \frac{1}{\lambda}$

1.

$$Q(t) < F(t).$$

2.

$$= = +$$

3.

$$= \int_0^{\infty} t f(t) dt = \frac{1}{\mu}$$

μ

$$= \frac{1}{\mu}$$

4.

t

$$Q(t) = \frac{\lambda}{\mu + \lambda} < 1$$