



$$\frac{d}{dt} = 15 - \frac{Q(t)}{45}$$

 $Q(t) = 20$

perid I. Write the DE and mitral conditions. P(s) = 20,000,dr dr 12p - 600 Λ

OR	C	bunnies	bun; r)
dt		accumulated	105+



(y+xy=4) y(0)=1

| (× $(-\omega, \omega)$ \searrow



 $\begin{cases} y'' + R(h)y' + q(h)y = g(h) \\ y'' + \frac{3}{4}y = 1 \\ y'' + \frac{3}{4}y = 1 \\ y'' = \frac{3}{4}y = \frac{3}{4$ $Y'' + \left[\begin{array}{c} 0 \\ 3 \end{array} \right] Y' + \left[\begin{array}{c} 1 \\ 3 \end{array} \right] Y = \left[\begin{array}{c} 1 \\ 1 \\ Y = \left[\begin{array}{c} 1 \\ 1 \end{array} \right] Y = \left[\begin{array}{c} 1 \\ 1 \end{array} \right] Y = \left[\begin{array}{c} 1 \\ Y = \left[\begin{array}{c} 1 \\ Y = \left[\begin{array}{c} 1 \\ Y = \left[\begin{array}{c} 1 \end{array} \right] Y = \left[\begin{array}{c} 1 \\ Y = \left[\begin{array}{c} 1 \end{array} \right] Y = \left[\begin{array}{c} 1 \end{array} Y = \left[\begin{array}{c} 1 \end{array} \right] Y = \left[\begin{array}{c} 1 \end{array} Y = \left$ $= (-\infty, \infty) (0, \infty)$ - <u>3</u> - <u>1</u> $= \left(- \Delta , \Delta \right)$



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