1.
$$\lambda = 1$$
 $x(t) = x(t)$
 $x = x$
 $x(t) = 2$
 $x = \lambda = 1$
 $x(x) = 1$
 $x = 1$
 $x = 1$
 $x(t) = x(t)$
 $x = x(t) = 1$
 $x(t) = x(t) = 1$

$$\lambda = \frac{1}{100} \lambda = \frac{1}{100}$$

$$-\frac{\ln^{2}}{5700}t_{1}=\ln\frac{1}{10}$$

$$-\ln 2\tau_{1}=5700\ln 10$$

$$\tau_{1}=-\frac{5700\ln 10}{\ln 2}$$

$$\tau_{2}=1,8 \text{ Pix}$$

$$10) x=e^{\lambda \tau} x(\frac{51}{12})=\frac{1}{2}x(0)$$

$$e^{\frac{1}{12}\lambda}=\frac{1}{2}$$

$$\frac{1}{12}\lambda=\ln\frac{1}{2}$$

$$\frac{1}{12}\lambda=\ln\frac{1}{2}$$

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$$\frac{1}{12}\lambda=\ln\frac{1}{2}$$

$$\frac{1}{12}\lambda=\frac{1}{2}x(0)$$

$$T(0) = 15$$

$$T_{R} - C = 15$$

$$T_{R} = 15 + C - Ce^{RC}$$

$$T(1) = 12$$

$$15 + C - Ce^{R} = 12$$

$$15 + C - Ce^{R} = 12$$

$$16 + C - Ce^{R} = 12$$

$$17 - 12$$

$$16 + C - Ce^{R} = 12$$

$$17 - 12$$

$$17 - 12$$

$$18 + C$$

$$17 - 12$$

$$18 - 13 + C$$

$$17 - 13 + C$$

$$18 - 13 + C$$

$$1$$

$$(a \mid q - v) = \frac{1}{2} (z + C),$$

$$q - v = C_{1} (z + C),$$

$$v = C_{2} (z + e)$$

$$v = C_{3} (z + e)$$

$$v = C_{4} (z + e)$$

$$v = C_{5} (z + e)$$

$$v = C_$$

22) RC Clo + V(2) = salust) U(0) = La $\hat{v}(t) + \frac{1}{2} v(t) = \frac{1}{2} v(u_{\varepsilon}t)$ ((t) = 100 + (t) = 1(5-0) ds