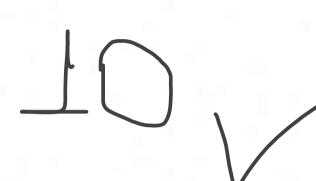
## TESTE 1

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$$q'(t) + \frac{(\cos(t) + 2)}{\sin(t) + 2t + 1}$$
,  $q(t) = \frac{12}{\sin(t) + 2t + 1}$ 



$$P(t) = \int P(t) dt$$

$$P(t) = \int \frac{\cos(t) + 2}{\sin(t) + 2t + 1} dt \rightarrow \int \frac{1}{u} du \rightarrow \left[ \ln(\sin(t) + 2t + 1) + A \right]$$

$$u = sen(t) + 2t + L$$

$$du = cos(t) + 2$$

$$e^{P(t)} = e^{Jm(sen(t)+2t+1)} = \frac{J}{sen(t)+2t+1}$$

c)
$$C(t) = \int g(t) \cdot e^{P(t)} \rightarrow \int \frac{12}{(\text{Sen}(t) + 2t + 1) \cdot dt} \rightarrow \int 12 \cdot dt \rightarrow 12t + B$$

$$V(t) = C(t) \cdot e^{P(t)} \rightarrow 12t + B \left(\frac{1}{5en(t)+2t+1}\right) \rightarrow \left[\frac{12t}{5en(t)+2t+1} + \frac{B}{5en(t)+2t+1}\right]$$

9)

$$\frac{12.0}{\text{Sen}(0)+2.0+1} + \frac{B}{\text{Sen}(0).2.0+1} = 90 \longrightarrow \left[ \frac{B}{\text{eq0}} \right]$$

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