To Explore Numericule

Region: A

$$V=V_0$$
 $V=V_0$
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crave number
$$\begin{cases} k_1 = \sqrt{\frac{2mE}{t^2}} \end{cases} k_2 = \sqrt{\frac{2mE-V_0}{t^2}}$$
orave

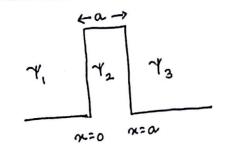
$$B = A\left(\frac{k_1 - k_2}{k_1 + k_2}\right) = A \cdot \underbrace{\int E - \int E - V_0}_{E} = A\left(\frac{1 - \underbrace{\int I - \underbrace{V_0}_{E}}}{1 + \underbrace{\int I - \underbrace{V_0}_{E}}}\right)$$

$$D = 2A \left(\frac{k_1}{k_1 + k_2}\right) = 2A \cdot \sqrt{\frac{E}{E + \sqrt{E - V_0}}} = \frac{2A \cdot \sqrt{E}}{1 + \sqrt{1 - \frac{V_0}{E}}}$$

CASE 2: ELVo

$$\gamma_{1} = A e^{ik_{1}x} + Be^{ik_{1}x}$$

$$\alpha = \int_{-\infty}^{2mr} (V_{0} - E) \frac{1}{t^{2}}$$



$$\gamma_1 = A e^{ik_1x} + B e^{ik_1x}$$

$$\gamma_2 = D e^{-ik_3x}$$

$$\gamma_3 = G e^{ik_3x}$$