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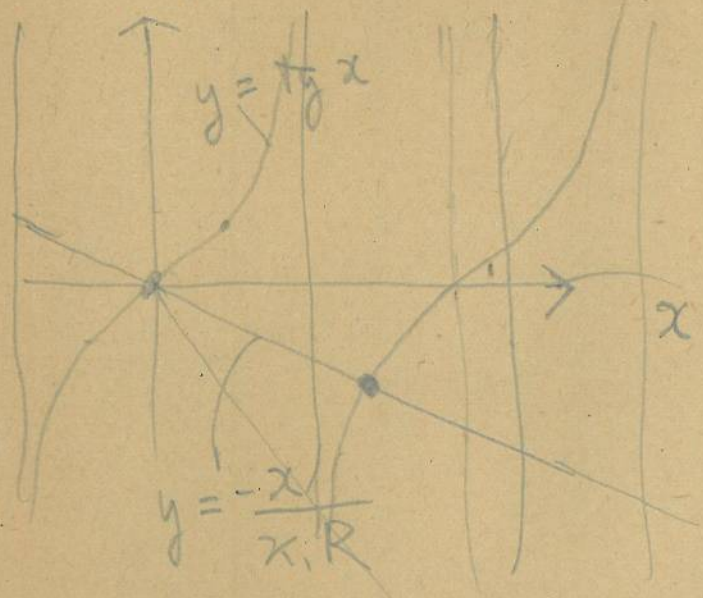
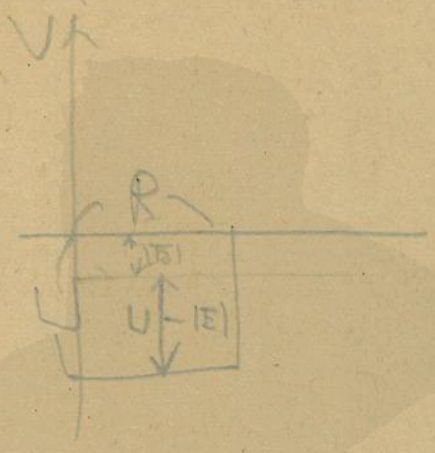
F03010

$\tan k_2 R = \frac{k}{\chi_1}$

$k_2 = \frac{1}{\hbar}\sqrt{2m(E+U)}$





$k_2 R = x$

$\chi_1 = \frac{2m\sqrt{-E}}{\hbar}$

$\chi_1 R \gg 1$

$k_2 R = 0, \frac{\pi}{2}, \frac{3}{2}\pi, \cdots$

$2m(E+U) = n^2 \cdot \frac{\hbar^2}{R^2}$

$E + U = \frac{\hbar^2}{2mR^2}$

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