

DISTÂNCIA EUCLIDIANA QUADRADA

$$D_e(\varphi_n, \psi_n) = \sqrt{\sum_i |\varphi_n(z_i) - \psi_n(z_i)|^2}$$

EQUAÇÕES TRANSCEDENTAIS (PQF)

$$\tan\left(\sqrt{\frac{a^2 m_e^* E_n}{2\hbar^2}}\right) = \sqrt{\frac{(V_b - E_n)}{E_n}} \implies f(E_n) = \tan\left(\sqrt{\frac{a^2 m_e^* E_n}{2\hbar^2}}\right) - \sqrt{\frac{(V_b - E_n)}{E_n}} = 0$$

$$\cot\left(\sqrt{\frac{a^2 m_e^* E_n}{2\hbar^2}}\right) = -\sqrt{\frac{(V_b - E_n)}{E_n}} \implies g(E_n) = \cot\left(\sqrt{\frac{a^2 m_e^* E_n}{2\hbar^2}}\right) + \sqrt{\frac{(V_b - E_n)}{E_n}} = 0$$