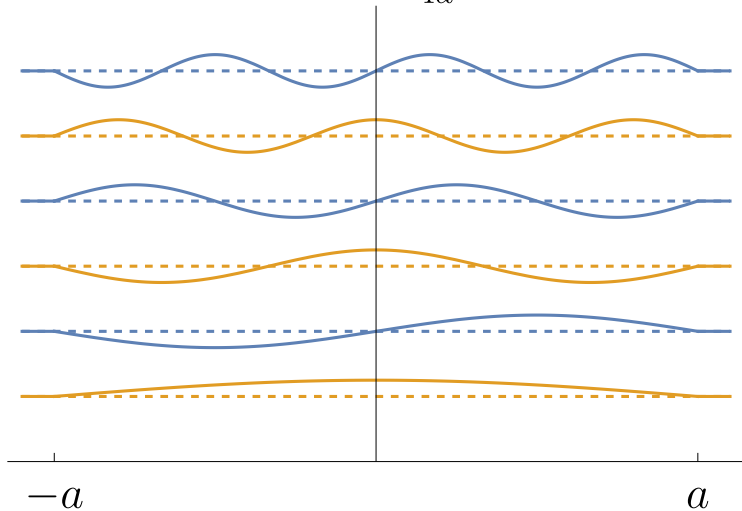$$V_0 = 10^8 \frac{1}{4a^2}$$

$$E_6 = \left(\frac{6.\pi}{2a}\right)^2$$

$$E_5 = \left(\frac{5.\pi}{2a}\right)^2$$

$$E_4 = \left(\frac{4.\pi}{2a}\right)^2$$

$$E_3 = \left(\frac{3.\pi}{2a}\right)^2$$

$$E_2 = \left(\frac{2.\pi}{2a}\right)^2$$

$$E_1 = \left(\frac{1.\pi}{2a}\right)^2$$

$-a$ a