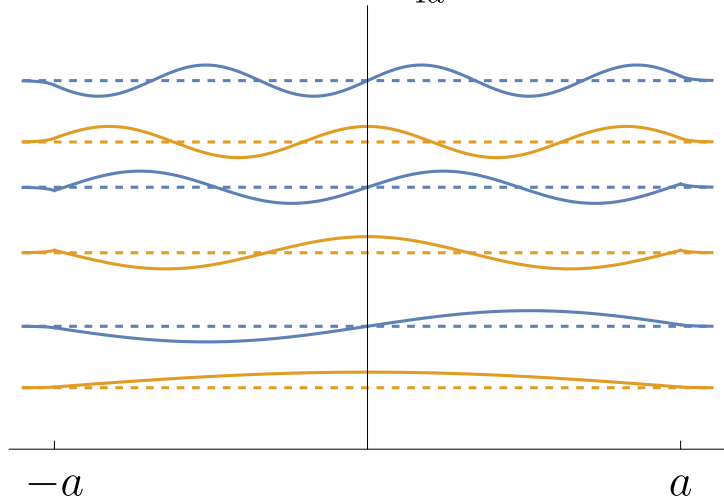$$V_0 = 10^3 \frac{1}{4a^2}$$

$$E_6 = \left(\frac{5.81\pi}{2a}\right)^2$$

$$E_5 = \left(\frac{4.85\pi}{2a}\right)^2$$

$$E_4 = \left(\frac{4.13\pi}{2a}\right)^2$$

$$E_3 = \left(\frac{3.1\pi}{2a}\right)^2$$

$$E_2 = \left(\frac{1.94\pi}{2a}\right)^2$$

$$E_1 = \left(\frac{0.97\pi}{2a}\right)^2$$

$-a$ a