



Even bound states

$$V_1 = Ae^{kx} \qquad x = 4e^{-kx}$$

$$V_2 = B(e^{kx} + e^{-kx}) \qquad -4 < x < 9$$

$$V_3 = Ae^{-kx} \qquad 9 < x$$

(bc)
$$Y_{1}(-a) = Y_{2}(-a) \iff Y_{2}(a) = Y_{3}(a)$$

$$Ae^{-kq} = B(e^{-kq} + e^{-ka})$$

$$A = B(1 + e^{-2kq})$$

$$\Delta \frac{d\psi}{dx|a} = -\frac{2m\alpha}{\hbar^2} \psi|a$$

$$(1+e^{2k\alpha})\left(1-\frac{2md}{h^{2k}}\right)=1-e^{2k\alpha}$$

$$e^{-2k\alpha}=\frac{h^{2k}-1}{md}$$

has solution for

$$x = \frac{VW(\frac{e-1}{V}r_1)}{V}$$

-> One even bound state

· energy of d= ti2/ma

$$E = \frac{\hbar^2 k^2}{2mq} = \left[-0.407 \frac{\hbar^2}{mq^2} \right]$$

· evergy of a = ti/4ma

odd bound states

1)
$$1 = A^{2} \int_{-\infty}^{\infty} e^{-\alpha \times 1} dx$$
 $\frac{1}{A^{2}} = \sqrt{\frac{\pi}{10}} \rightarrow A = \sqrt{\frac{2\pi}{10}} / \sqrt{4}$
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$$|\gamma(x,t)|^2 =$$
 $|\sqrt{2\alpha}| \frac{e^{-\alpha x^2}}{|\gamma|^{1+1\ln 4t/m}} |^2 |tt|u = \frac{2t}{m}$
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closest for 4-000 +=0