

 $\Psi_{(n)}(n) = \sqrt{\frac{2}{a}} \sin\left(\frac{n\pi n}{a}\right) = \sqrt{\frac{2}{a}} \sin\left(\frac{n\pi}{a}\right)$ Y(1) (72) = N= sin (nota) = 1 = sin J3 sin (JA) √2 sin (5/2) En = 2K st encited state doubling degenerate some thing Why degenerate [PH] Essume [1,2] or [2,1] eigen usives event the energy out put is the same 2 sin(27/2) phil sony