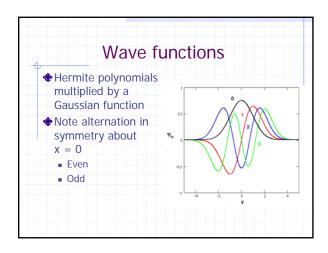
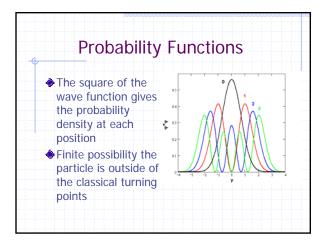


	functions	5
	scillator wave ne Hermite po	e functions are olynomials
mite poly of funct	ynomials are tions	well-known
 υ	H _v (y)	Symmetry
 0	1	Even
 1	2y	Odd
2	4y ² – 2	Even
	8y ³ – 12y	





	Summary
	monic oscillator is easily identified as lermite's differential equation
🗢 Nor	ndegenerate levels
-	nmetry about x = 0 alternates with ntum number
🔶 Equ	ally spaced energy levels
the pot	te probability of finding the particle in classically forbidden region (where the ential energy is greater than the total rgy)