2-Dimensional Motion	PHIII
. Projectile motion	and a little of the grant of the state of th
L. Motion in a circle	The state of the s
	Selection of the select
Launch ay=-9.8 ml	5 Committee of the page to back, the
P→5mls Dax=0	
A punter kicks a football at an an	agle of 30° with the horizontal and at an initial
velocity of 20 mls. Where should	a punt returner position himself to catch the football
just before it strikes the ground	6? All
70 Vox=20c0s30=17.3mls	Assume launch and receiving levels are the same
30° Voy = 20sin 30 = 10 mls	9 89(8.3)(3.3)
0=10-9.86 6=2.04:	s 29=17.3t 6=1.676s
x=17.3(2.04)=+35.3m	
50m = 4m1s2 Vay=Vt cos 2	4 TX
-30m Vox = -Ve Sin2	4
1	
3	