



3	nit 3, Force
3 - acceleration = 5 m/s2 constant	
a) v(t)= V(t at	6, 2022
10=0+5.00(t) $t=2$	
b) $\chi(t)=\frac{1}{2}(s)(2)^2+0(2)+0$	
½ (S)(4)	$\vec{r}_{net} = 0.$
X(2)= 10	
(2) $\chi(2) = 10$ $\Delta_X = 90$	ĒL (
[100=10+10(t)	
90=10(t)	nogonal to a re
t=9	
+ 2	
+=115	ft-pointing
5 11. a) N=1025	$T \sin \theta = 1$
5 71/1/2 at 2 9 81 m/s2	pointing
dy= 2 de g= q et min	Tr
1 - Call 12 - Ca	
11 Ay= 292 9= 9 81 m/s2 Ay= 292 9= 9 81 m/s2 21/2 5	
	5.76=tsec 05
b) Vx = 1t (5.76 = 12.02 m/s) 7 33.13	(⊗,
as and the second	θ
2 L45° with respect to horizontal at 40 mis	49
2. 295 WHILL SEPTEMBER STORAGE STORAGE	TA TA
a) now far away does it land	f to the second
10/10/10/10/10/10/10/10/10/10/10/10/10/1	11000 > 163.1 m
$V^{2}\sin(20) = \frac{(40^{2})\sin 90}{9.81}$	9.81 1
9.81	15 1103 1m
X120	lands 163 1m
	away
40M/S	
b) now long in air?. 7= 240 sin(0) 2(40) sin45 56.57 = 5.	
6) MOVE (UVY) 11 2 (4) (1) 45 64.57 = 5.	113
T- 2 VO SIN(0) 2(40) 9.81	
9 9.81	

