Chapter 4 1) A desire, a sain resistance b) F=T-f-mg 5x10 kg(a)=1.25x10 N-4.5x10 N 0 - 5=10 kg (9.8) 1.25 × 10°N ma = F ma=T-f-mg a=1.25 x10 N-4.5 x10 N-4.9 x 106N fistochit, 5 x 10 4 kg 5 × 10 5 kg a= 6.20 m/82 400F-16.5 4595 . 491 3) a= - 200 m/g= Fima F = 1000 * (-100) 1000 N = 7000 ng x (-700 m/g-) = 4 × 10 = N b) FNerx = Talsin10' + TACOSIS - W C.) FNETY = T2160510"-T151415") d) FNET = 0 = T, cog 750 = T2 91110" Tecosio x sin 75 + Te sin 10 - (9.81 x 76) (0575 TZ = 194N - TI = 50575 = 738N=TT Chapter 5 a) four Nong b) f: 3x120x9.81 FNOT . man fu-form EW- 357N f=M.mg f= .5×120 ,9.81 ma= 588N-358N £= 588N ma = 236N hong a=1.96 mig.

	2300,000
2) fr=0.1	# 41) 2300my terms = 10 m restem
25.	descense 3 mm = :003 m = :04m
fhe out wy ma	Y-mgt / / / / / / / / / / / / / / / / / / /
fn = (0.1 x c 0 510 + 51 110) 9.81	P. TA1
21.672	Y= 2,500 kg x 3 81 = 10 =
.175008-	71 oums - a. 197 -
Ta = .77 m/s2	Y: 225,630
(a -11 m/s)	.0502
7-10	1 Y = 4,49 × 106 N/m2
3) Fo 2 Cp A 2 2	The state of the s
Fo: 2(.75)(1.725 kg m-3)(.75m2 X40m/s)	
= . 344 × 1600	7
550,4N	
Chapter 6	
1.) 144km + 5 m = .0005 Km	
W= 194 km = 288,000 x Inr = 80 rads	
3600's Secs	
The second secon	
7) 0.9km red 120km x 1000 x 86001 £ 33, 3m/s	The state of the s
V=175 .9 hm , 1000 = 900m	
tand: Virg	
tand: 33.3" . 1.108.81 = .125 tan'	
900m×9.81 8,829	
0 · 7.12°	
	Marie Control of the
3.) a.) Path 1: 400m=1	Palin 2
mg: 22.1	12 - J4. 81 x 8000
V1 = 59.81 > 400m	V7 = 89 m/s
(VI: 63m/s)	
	@
Value Control of the	