Physics Midtern
19a. ev-w
1. (C)(11.09 cm-3) V. = V.(-2,2)
1. (1.09 (1)
2. (C) (10.00 hours) HHI
1. (21-2)
3, 25m/5x3.6Km/hperm/5 B.) V+ W=(21-2)
3, 25m15x3.6km/hperm15 B.) v+ W=(24+21)+26-23) = 90km (D)(96km/hr) (=06+05-8)
= 90Km (=01+05=0)
(·) V-W
4. Accel = Duelo (-21+21)-(21-21)
(-4+4)
lokalar (11+4)
60 SECONS D. ON Graph
(C) (1/6 Kmhr/s)
E.(-2)(2)+(2)(-2)
5. (A) 5000 m2) -4-4
(=-8)
6. (C)(4x103) Unit 1:
1. V- V6+af
7. Southwest V=15n/s +(3m/s) =15n/s + 2m/s
7. Southwest V=15n/s +(3m/s)=15n/s + 2m/s wrons both south =(27m/s)
and west are negative. B. 5-Vattk at 2
(D)(-7.100d-7.1Kr/hr) (5=60m+1/6(3)(16)=84
(D)(-7.100d-7.1K-1hr) 5-60n+10(3)(16)=84
(84m)
8. Since both are negative: (. Ves, they are different
It is in the third gradient At +0.
1800+45= 775 Instant velo-1545, avg = 214/5
(A) (225 desrees)
At +=4, Instant velo = 27m15
Au de Di 1
Aug velo = 2lm/s

15 9 1
2. V=Ax X=X/10) x/5)=606-338=262
- (- (P=52.4m/s)
AX=x/20)=x/15)=1500-931=512m 5195 Q=162.4m15 1500-415)=1500-931=512m T=2nt[L/9]
5175 Q=162.4m15 1.56=2750.719 1.56=2750.719
G-50- Folsa M-1,00kg 17,4536-2#0.7g2
Positive (a=5m/s2) 2.9330=9,3192
3. V=V62-205 NO FITCHION 5021.9644
3. V=V62-2as No Fitchian 92:1.9644 5-V2-V8 120.70 metus (9:1.4015)
5=36m0/52 1. T-1000N = 1000N = 8205N
1.6m/s2 (25N)
(=22.5m)
B. Fg=mg=900Kgx9.81m/52x8829
1-6.000/15-0015 0.65x 8829 N = 441.45N
DM2.3N = 111.132 2 / 150.85V
0.60m/s (7.5 secents) 776a3.86 ~ (8.63m/s2)
- 70009
4. Completed the PHET SIM, 20 KM-DMIS
Junder the kab tabe 120km/hrx1000n xlm 122215
Velocity = 30m/s A. a=12-400 (33m/s)
Wounch Engle - Fro open de 3 (From
Height = 24.11meters 0= -35.32m15 = -5.56m15
T=3.1 5econds B. F=20,0001gx(-5.56n/5-) m
1 - 0 0000 0 X1-3.56 1/3") m
All Wen Pange = 60m (-11/200N)

	A DESCRIPTION OF THE PERSON OF	
	THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	
	AND DESCRIPTION OF THE PERSON	
2 = - 75.115	200	
3- FNEX = -7.5N+5cossot, co. =-7.5+8cos30+10cos45	2x66k5x9.8/m/s=	
27.5+6.9262+7.67	Ut > 1.2691n3x.5x.25m2	
+6.49927N-ma 1777.2 ~ (88.6MS)		
M=6,499927N a=3.07	3.0 W 0.15	
(a=0.13m/52) (a=0.06n/50) Eyanin B. METOUX. 25m2 > 25m2 F=7.18m (a=0.14m/52) Save numerator:		
3.A) Fc - 80,000NOSIN (30N)	New DONOM = 1.2 x.5x25= (Seg-	
(40,000N)	1/+= 1177.2 - (8.86m/S)	
B. V=boekelps, 1000m. The - 166.67.	115	
[= 6000KS.166.67A152	16. A=H(3)=H(3)=0.0314m2	
(= 6000.27777.78 × 4/46.67m	10,000N X10M	
t=9= 1508/18081.68 m	0.6314x45x109 × 1.413x109N)	
78.495		
577	V1-12=45x109=33.5X109N/m2	
4. A) VEX	10 DONKIND	
1000	DL = 10,000N X10M	
IM9	0.7075X109 (0.141MM)	
B. Mg = 3KX	Unit 3: Forces 184:	
(X-Mg)	1. I chose a football.	
(-31)	mgsind-Fr=ma a=g/sind-plant	
C./m/K-700	G=9(Sin 0-10650)	
X=1:m=2 = 0	BI lim=a=9(5in0-0.0056)=95ina	
This indicates the	(a=gsinO)	
Spring becomes	2. 9 (Sno- UCOS) Sinlo= 1786 (300)	
linfinitely large.	a=9.81(6.1736-0.149848) -0.738 AISA	
	B. 1 9=012(0.138)(30°)	
	d=0.369×900~ 332. Inches	