Kinematic Equations			
• 1		6) d= 2mtolown)	11) Q = Q=9.81 m/52[down]
1)	At= 2hr eomin	ei = 9.81m/s² tolown)	(1) > N.f ~ 10 90
·	= 2.33 hr	びっこ Om 15 Edown?	At, Ada = 2m (clown)
	d=2gokm V= ae	$ \int_{0}^{\infty} = \frac{7}{V_{2}} \frac{2}{\sqrt{V_{1}^{2} + 2\tilde{W}^{2}}} $ $ \tilde{V}_{2} : V_{1} + 2\tilde{W}^{2} $	() +
	V: AL	d = 1272	My Sty
	233hr	Vz = Vi + Zaol	
	= 85.7] Km/h	= 6.26m/s [elown]	0= 12-V1- 0= 0+1
			V2=V1+₹4£,
2)	Vi = omis [P]	7) vi=24ms (F)	= 01 4 t 1 01 = 13-12 13= 12 t 01 4 t 2
	V2 = SMB [F]	QJ = -Smb2(E)	N = 13-12
	Vz = 5ms [F] I = 2m cF]	DE=35	V3= V3 + 074t2
	At??	1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 =	= 0 At, + ciat2
	2 = (1/4/2) St	1 - 12 - VI	
	At = Vivi	V2=V1+ QAL	c(=(12)1+2
	Δt=? Cl=(10+0) L=(10+0) Δt=(10+0) 20+0 20+	=24m/SCF]+/fon/s2CF](38)	= (Mat. + MAt. + MAt.) At2
	=0.8s	= 9msce)	C(= (\bar{\varphi_2} + \varphi_2) \L_2 = (\bar{\varphi_1} + \varphi_1 + \varphi_2 + \varphi_2) \L_2 = (\bar{\varphi_1} + \varphi_1 + \varphi_2 + \varphi_2) \L_2 \(2\varphi_1 + \varphi_1 + \varphi_2 + \varphi_2 \\ 2\varphi_2 \\ 2\varphi_1 \\ 2\varphi_1 \\ 2\varphi_2 \\ 2\varphi_1 \\ 2\varphi_1 \\ 2\varphi_2 \\ 2\varphi_1 \\ 2\varphi_2 \\ 2\varphi_1 \\ 2\varphi_1 \\ 2\varphi_1 \\ 2\varphi_2 \\ 2\varphi_1 \\
	:. <u>∆</u> £=0.8s	:. V2= 9m/s [E]	2 (2800, +0040) (0.25)
		<i>y</i> ,,	20mls = 200 1t, + 00 A-t2
3)	Vi=omis CF]	8) Ti= com/s [clawn]	18.028=2046,
	10 -8 m/S [F]	11-12-6.25	$\Delta \mathcal{L}_1 = 0.92s$
	d=10m [f]	V2 =-8m/s [dawn]	Vi= ale.
	d = 10 m [F]	विद् री	=/ 4.8 m/c 2/1 6.01 9.5)
	Ei = Pri	0 = 18-16 At -8mb-10ms - 0.2	= 9014m1550001117
	(3mis)2~(0m/3)2 = 21 (0 m/3)2	= -8mB-10mB	$\tilde{N} \simeq \frac{V_1 + V_2}{V_1 + V_2} \wedge 4$
	= 3.2m/s ² [F]	=90mb2[elom]	= 90(4) s [6 400) = 90(4) s [6] = (1) + 1/2 / 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
	:. ei = 3.2 m/s2[F]	= Yom/s² Eup)	= 4.15m relium 7
		i. Et = 90m/6º EUP]	= 4.15m [clown] at = 4.15 m [clown].
4)	a=3m/s2[f]		, , , , , , , , , , , , , , , , , , ,
	At 256	9) (1 = 54 mulh [F] = 15m16[F]	
	Vi=4mb[F]	Q:-7ms2[F]	
	V2 = ?	cl-20mlf] (must be less than this value)	
	V2 = ? 0 = V2 - V1 4 E	V2 - 0m/S	
	Ve=Vitale	ot ?	
	= (4 m/s) + (3 m/s²) (6s)	$ \begin{array}{c c} \hline V_{2}^{2} = 0m[S] \\ \hline V_{1}^{2} = \frac{2}{2} \\ \hline O[-2] = \frac{15^{2} - V_{1}^{2}}{2} \\ = \frac{(00m[S)^{2} - (15m(S)^{2})}{2(-2m(S^{2}))} \end{array} $	
	= 19m/s [f]	(omis)2-(18m/s)2	
	: V2 = 19ms [F]	l =16,07M	
		: d < 20m	
5) ا	a =8m/s²[f]	: He car cun Stop in time	
	Ti = 20 m/S [F]		Shirary. List Adia
	-s -o	10) 41 = 1.55 (half decause	counting this point
	At27	03=-9.81m152 Cup]	
	-> Vi-Vi CN - Ale	1) a truell	
	V2 = 0 m/S [F] At 7 N = V1 - V1 At - V2 - V1 At - V2 - V1 - 20 m/S - 20 m/S - 20 m/S - 20 m/S - 20 m/S - 20 m/S - 20 m/S - 20 m/S	Vi = 7 Vi = Vi = Vi D = Vi = Vi	
	- COMIS - COMIS	W-Vi	
	= 2.5	V1=V2-04+	
	1. At=2.5s	= LO)-(-481m/s2×1-58)	
		= 14.72 m/s EWD	
		:. Vi = 14.72 ms Eups.	
		1 - V 1 1/2 1/3 0 0000	