	A 21: 4'			
	Angular Kinematier	(rodla)	W (RPM)	
1 .	29° 249	8 4 × 4 18	· 04	
10.	28° × TC = 0.49 rad.	38	238.7	
b.		4. C = 2/81	22 9	
ρ.	50° x 7t = 0.87 rad	91	143.3	
<i>C</i> .	145° T - 253	8.30	22	
C.	145° X TC - 2.53 rad	00.7		
d	3 nerx 270 - 6TT rad.	Mx 3m 300 md	7200 89	4.
,	1 rev	60 5		
#.f	0.26 new 2TE - 1 - und	(por 2018) CM	v=(0.0889 n	
	0.26 nev $2\pi = \frac{1}{2} \pi \text{ ad}$	- m	0.73	
事.e.	60 ner , 2tt - 120			
	60 Nev. x 2tt = 120 Tt rad.		v= rw	.3
9.	0.35 rev x 2n - 0.70n	rod/2	= r(RPM	
	s2 / Nev) (33.33 RPM & 3E)	= (0.095 ~	
			= 0.297	
Za.	Az= rA9			
	9 = Ax = 3m = 1.5 rod.	in = 45 pm.	15 RPM & 30	60
		- 2.5 mm	IS RPM x 10 s	. А
b.	$\Gamma = \Delta x = \frac{8 \text{ in}}{9} = 2 \text{ in}.$		607	
	O 4 rod	· oh · oh	1 new go I min	٠.)
С.	AZ = PO	I min	15 rev	
	= (4ft)(25°. TE)	D(15 RPM x 255)	w = (1.75 m	. b
	$= \frac{5\pi}{9} \text{ ft } \approx 1.745 \text{ ft.}$	Ann	70/ =	
	1		34.6 ≈	
d.	r = Az = 30 in 180° = 6	6.6 in		-
	9 26°. 7C	in 1940 RPM 6.	I new 1 de	Ta.
3.	Oier O(rad)	/	()	-1
Ο,	9 (rad) 17 34π ≈ 106.8	r (m)	17tt ≈ 53.4	D.
	1/2 0.318 2		0.5 m	
	2/t ≈ 0.636 4	3	12	
	5/ _{tt} ≈ 1.59 10	4.5	45	
	8 16T = 50.3	0.398	20	
	0			

							Angelon		
	w (RP)	$M)$ ω	(rod/2)	r(m)		v (2			
	40	$\frac{2\pi}{60} = \frac{2\pi}{60}$	4 × 4.18			83		100.	
	238.7					6.28			
	22.9	12/5	-= 2.4			- 12		.d	
	143.2		15	211		4	\sim		
	22		2.30	3.47	2.6 -	8	1460	. 5	
	4.1					190°	X		
4.	7200	RPM x 2th	- 240 tt	nad ≈ 754	1 rad	275	3 NOT Y	d,	
		60		5	5	1200			
	v=(0.088	39 m) (240x	rad)	To rad	1 _ = =	ner 2	0.26	t. 9	
		7.0 m.		8	8 3	5 Ina			
					- 10	* SIE		F.C.	
5.	v=rw			. Not 31	340 (-	- lune			
	= r(R	(PM x 375)	e \	0.70 r. pul	270	new .	0.35	. 9	
	= (0.08	85 m) (33.33	RPM * 3TE)		-hou	20			
	= 0.29								
		,				FAP:	42	da.	
6 a	15 RPM x	3 min = 45,	ev.	1.5 red.	3 m	- JA:	8		
		105 - 2.5 10		. John 0.1	2 mc	_ ~			
		605			in _	8 _ x	Λ= ¬	.d	
С.	1 new . 10	min x 606	45.	, 10%)	o m	x = 8,	3		
		ner / min					= 5A	. 9	
d.	r = (1.7	5 m) (15 RP	M x 21)	(JE . 0 7	(3E) (3E)	=		
-,,	= 7/8	TT		745 16.		5m 12	9		
		75 m.				A L			
				20° - 6.6 in	31 wic	2 30	r= 4	d.	
7a.	I new	1 for _ 1					9		
	24 hr	1 hr = 14	40 RPM=	6.94-10	RPM		1		***
b.	N= FG1	- A	r (m)	Char	(N	-	9 je	3.	***************************************
	= (6.3	78 × 10° m)	(6.94.10-4)	RPM x BITE)	345 ×		41		
	= 463	3 m.	0.25	20 /	2	818.0	1/2 %		
	81		8		4	0.636			
	34		4.5		Ol	P3.1 ≈			
	90		898 0	6.03 =	1601 8		>		

15		
16.	H5 RPM x 2tt = 4.71 red. They are equal.	.8
	60 - 4.7-1 led.	
17.	$\Gamma_1 \omega_1 = \Gamma_a \omega_a$	
	W2 = (0.35 m) (6.5 and) - 18.9 and	P.
	0.12 m	
18.		10 a
	a = w6 - wi 5 rod/s 1 red	
r98 8	$\alpha = \frac{\omega_6 - \omega_i}{t} - \frac{6 \text{ rod/s}}{306} - \frac{1}{6} \frac{\omega_i}{s^2}$	
19a.	Wg = 0+ (0.75 and/52) (60s)	
	= 45 md/s = 100 2	.d
þ.	0 = \frac{1}{2} (0.75 and/62) (608) a	
	= 1350 rad be 301.0 = M991	.5
C.	v= (45 sd/6) (7.3 m)	
	= 328.5 m/s = 01.28.1) (m 20.0) = 1	114.
0160	3 5 0 1:0 () SX'E >	
20 a.	$\omega_{\delta}^2 = \omega_i^2 + 2\alpha t \dot{\delta} \dot{\theta}$.0
	$\alpha = \omega_{\delta}^2 - \omega_{i}^2$	
	249 (. 2
	$\frac{249}{249} = -20^{2} + 8^{2} = -6.063 \text{ mad}$ $\frac{2.500.3\pi}{20} = -0.063 \text{ mad}$ $2.500.3\pi$ $20.$	to
	2.500 gaz convert 500 rev	to rod on
b		. 6-0
b.	8 rod/s=20 rod/s + (-0.053 rod). t ~ 821 - 1000	-1
		.d
	t-2265.	
21a.	200 rad = 2 (2.5 rad/s2) (t2)	134.
۵۱۵.	t= 12.6 s	
b.	$\omega_6 = (2.5 \text{ rad/s}^2)(12.6 \text{ s})$	14.
ν .	- 215 lad,	
С.	v=(31.5 rad/6)(0.05 m) 12 d.6 - 500 199 3C = W	150
	$v = (31.5 \text{ rad/6})(0.05 \text{ m})$ $= 1.6 \frac{\text{m}}{6}$	
	26 red 11 = 10.5 rod.	d
	61	

$$82a \quad \Delta\theta = \frac{1}{2} (0.4 \text{ rad/}_{6} 2) (96)^{2}$$

$$= 16.2 \text{ rad}.$$