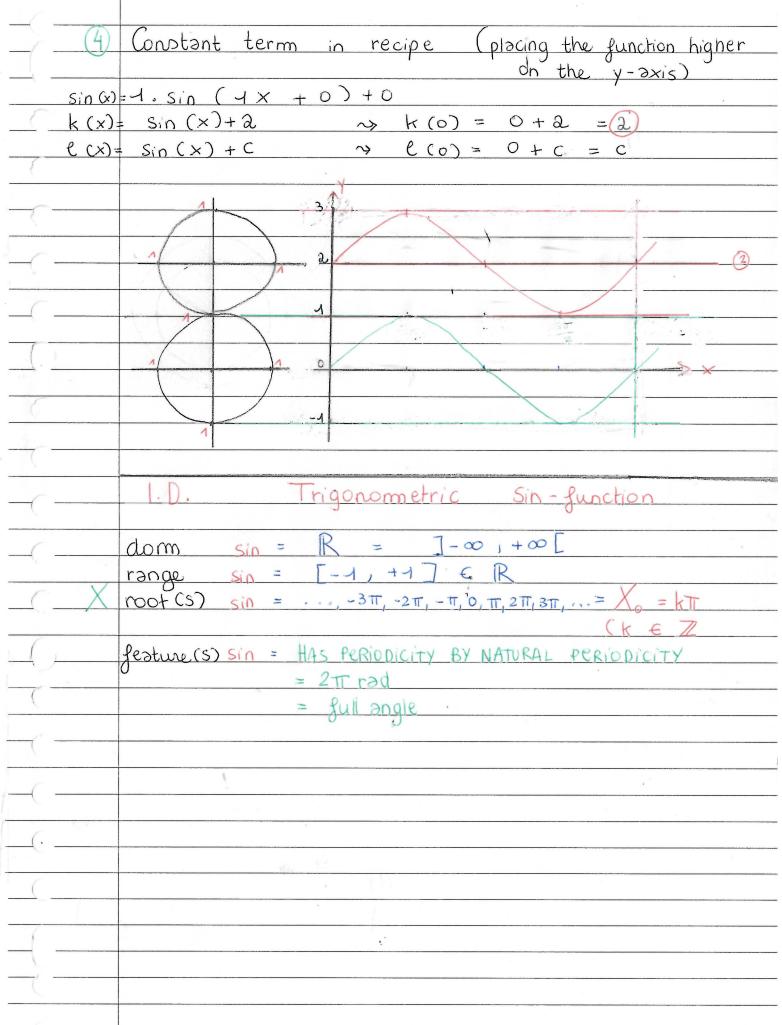


	measure	= UniT		
	Lenght	= M(e+e	r)	
	w	= [2Trad][4/+]	
		= rad 1	′ 2	
(Interprate like	(e; (w)	= rad/s = angular	speed
		(w)	= (rad) s-1	s= seconds
			= (rad) Hz	Hertz
			-	
			1 PITCH	
	LIGHT IR			7 WHATER STORE LILENCE AND EXCEPTION OF THE STATE
(10)	How to rep	1ace your	function on the ~> h(x) = Sin	$X - \partial X i S$
	SIN (X) = 3511	n(x+0)	$\sim \sim 1$ $h(x) = 210$	(X+(-2))
	$sin(x + \theta)$	Theta		
	310 (> 1 0 .	Theta		
	TABLE X	Sin(x)	h(x) = Sin (x (-)	(2))
	or		h (o) = sin (T/2) =	
	TT/4 r		h(T/4)= Sin(T/4)=	- V2/2
	TT/2 r	1	$R(\overline{y}_2) = \sin(0) = 0$	
	3 H/4 r	V2/2	R(3T/4) = Sin(T/4)=	V2/2
	tt r	0	f(T) = sin (T/2)	
	(*) T			agamifactura (.
		1		
			y (sin)	
	78 7 8 9 9			
-(-				
1				
-(- / /	\
				X
-(-				
108			- PHACO PEO	ECT (h(x))
			- TITASE CFI	CCI (N(X))
				·

There are 4 > 6 appearances of the generalised	
sign-functions	
$-\int_{C} (cx) = a \sin(bx+c) + d$	
$-\frac{g}{g}(x) = \alpha \sin(b(x+c)) + d$	
$-\int_3^2 (x) = a \sin(bx-c) + d$	
$- f_{y}(x) = \alpha \sin(b(x-c)) + d$	
(fs(x) = -a sin (b(x-c))+d	
\rightarrow odd => a sin (-(b(x-c))+d)	
$\star d = 0$	1 .
A ADVISED!	
X Phase - effect = 4st incoming most to find	
example: $f(X_0) = \sin(x_0 - \pi/2) = 0$	
$X_0 - T/2 = 0 \text{ rad}$	
$\times_{\circ} = (\pi/2) \operatorname{rad}$	\
	<i>(</i> -
UST ROOT of h(x), so i	
the X- shift to the right hand side	_
	ST-STREET
	_
example 2: $\int 4(x) = a\sin(b(x-c)) + d = 0$ (a $\neq 0$)	
N/C	()
X(x-c) = 0 rad	-
$X_0 = C = PHAse$	
b is innocent because there is no	
fre quency.	-
	manatanes &
	_
	_
	_
	_
49	



	T-226 Commission 2 commission 2
-(Iransforming a sine-function.
	f(x) = asin(bx - c) + d
	$\frac{1}{2}(x) = \alpha \sin(Dx - C) + \alpha$
	Change: a b c d
	change. \sim 8
(
1	Chigher/lower) (frequency) move on move on
	(tops) (of the waves) x-axis y-axis
	amplitude
-37	· · · · · · · · · · · · · · · · · · ·
· ()	4.5 Inverse Trigonometric Functions
	RECALL: the sin of an angle was given a
-	tangent in order to calculate the sin
	$sin(\alpha) = s$
	Now; We want to return to the original arc by;
	arcsin (sin(a)) = arcsin (s)
_(A but we don't know which side of
	the unit circle the angle is on, because;
	the sin is the same.
	So; parts get crossed out.
	So; parts get crossed out.
<u> </u>	
,	
	21

	TABLE		, , , , , , , , , , , , , , , , , , ,	=
	ABIC			
À				
	[X]=RAD	$Sin(\alpha) = 3$	arcsin (s)	
	0,00	0,0	arcsin(0) = 0	
	T/6≈0,50	0,5	arcsin(0,5)= T/6 ≈0,50	(
	T/420,75	73/2 ≈ 0, 7	arcsin(0,7)= TT/4 ≈ 0,75	
	17/3≈ 1,00	V3, ≈0,9	argsin(0,9)= T/3 £1,00	
	T/2 ≈ 1,50	1,0	arcsin(1,0) 7= 11/2 ≈ 1,50	
	-ブ3だ-1,00	-0,9	arcsin(-019)=-1/3 &-1100	
	-TT/4 ≈-0,75	-0,7	$arcsin(0,7) = -\pi/4 \approx -0.75$	
	-TT/6 ≈ -0,50	-0,5	$arcsin(-0.5) = -\pi/6 \approx -0.50$	
	X-DXIS EX]	= RAD		
			<u> </u>	
			1 There is no periodicity	(
			becouse of	_
+++-		> s-axis		
-1	1 2		·	_
	1-1			
				_(
	2000	<u> </u>	* 1	
	V		7	
X		· · · · · · · · · · · · · · · · · · ·		
		(1 + 1)	1	_
	Range (arcsi	$ = \begin{bmatrix} -T/2 & T/2 \end{bmatrix}$		
	Root(s) (arcsi	n) = unique root,	always 0	-(
	Feature (arc	sin) = point - sym	omet ric	
		(example;	see graph before	_(
		this 1D)	
				(
	,	40 11		
				7
				_
				-
			22	