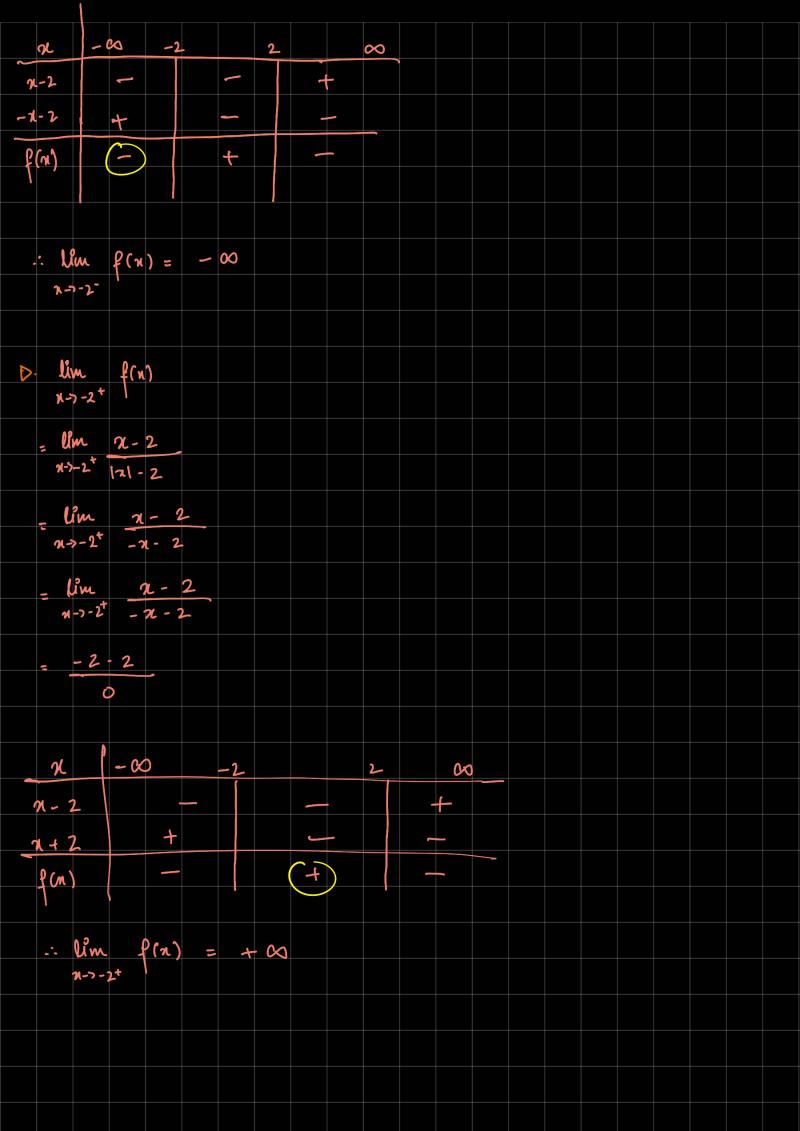
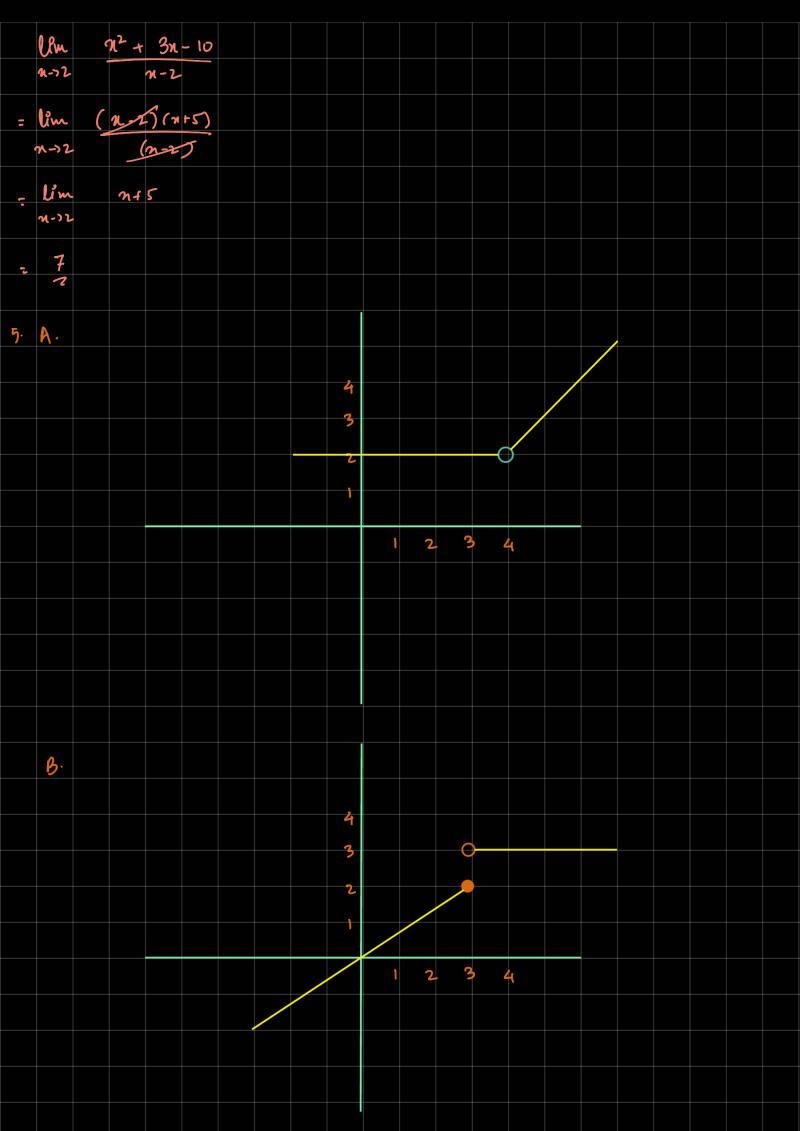
Tu	terial	Sheet ach limit											
1.	Find e	ach limit											
Α.	lim	sîn 20											
	0 -10	8											
	= Lim 0-70	sin 20	× L ×	20									
	<i>\theta\-</i>		0	20									
	: lim	2 0											
	Ø - XO	<i>O</i>											
	- 2												
B.	lim y→∞	5y-6											
=	l'm y->00	5y2 5y											
	y->∞	5y											
	lim y-200	141 54											
	y-700	54											
-	tim	¥											
	y-x	5y/											
=	15/2												
	5												
		1-61											
	とうけ	1-4							-				
	lim	- (1-t)							0	1	4		
	£->1 ⁺	1-1-					t	: >	l				
1	-1							1-	t	⇒	-ve		

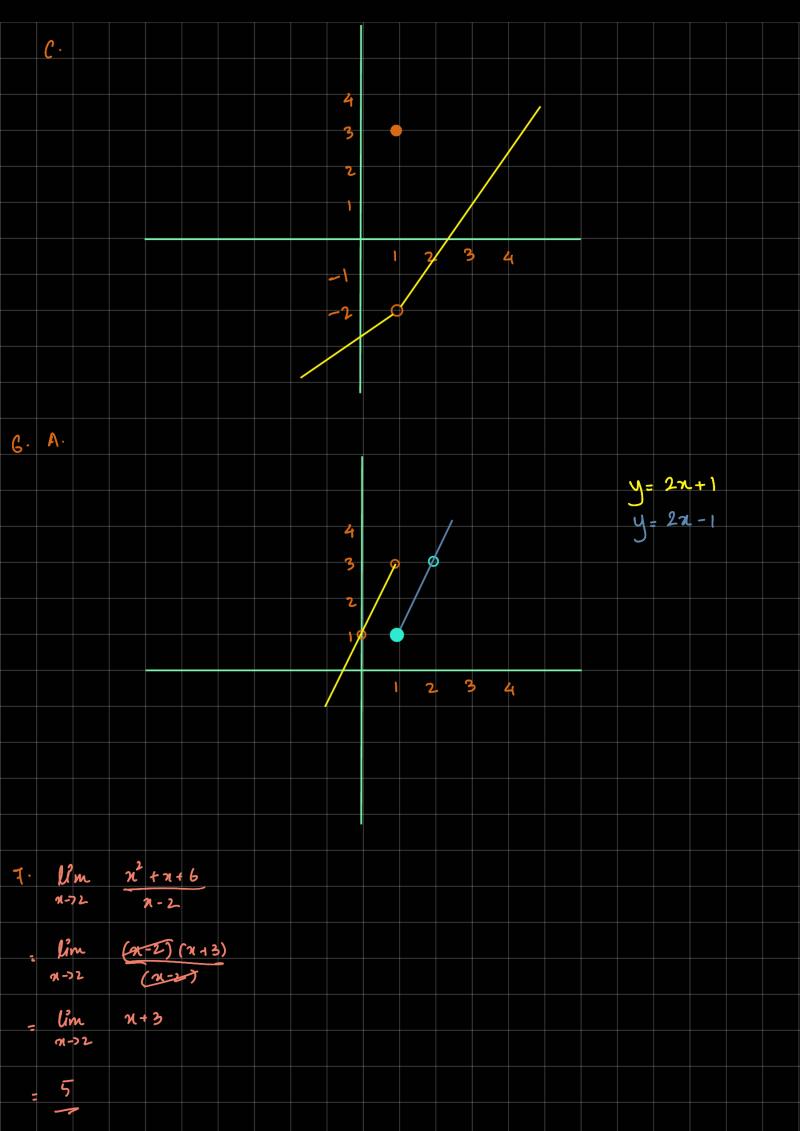
2.	Find	each of th	ese limit	5]	f(x) =	Ŋ	. – 2				
		1			'	10	x - 2				
۸.	lim	f(n)									
	2->-0	1 1									
	lim	2 - 2									
٥	7->-00	121 - 2									
	lim	1 - 2									
t	n->-0		-								
	- lim	r									
-	21->-0										
1	-1										
B.	lim	P(x)									
В.	N-> W	7(2)									
	- lim	x - 2									
	21-700	121-2									
	lim										
-	n-700	n - 2	_								
0.	1200	l(x)									
	lim 21-7-2										
-											
=	lim x->-2-	121-2									
	2->-2	7-2									
=	N-7-2	2 - 2 -x - 2									
	-2-	2									
-	0										



E. lim f(n)	
η->2	
- lim x - 2	
74-72 [21 - 2	
1,11 12	
LHL: lim 2-2 12-12-121-2	$RHL = \lim_{N \to 2^{+}} \frac{n - 2}{[n] - 2}$
1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	$\frac{1}{1}$ $\frac{1}$
n-72 n - 2	n->2 ⁺ n - 2
= 1	
: llm 21-2 = 1	
7-72 121 -2	
3.	
A. Um 1-4/22	
1-32 1-2-	
$\lim_{n \to \infty} \left(\frac{1-2}{2} \right) \left(1 + \frac{2}{2} \right)$	
7-72 1-2	
lim 1+ 2	
x->2 72	
: 1+2	
: 1 + 2 2	
. 1 + 1	
7	
B. Um 24 2 2	
2->0 2 - 3	
- Um 212+2	
$\frac{1}{1}$	
= -2	

4.				
A lim 223-6				
n->00 nk +3				
13m 2x3				
7-300 7k				
_ Um _ 2				
94-700 2k-3				
For limit to exist				
k-3 must be positive				
k-3≥0				
k ≥ 3				
@ k = 3	@ k = 4			
lm 2	lim 2			
	n->00 7 4·3			
- Um 2 -	lim 2			
N-200 [n->00 N			
= 2	2			
= = = = = = = = = = = = = = = = = = = =	218			
	0			
	-			
B. lim x2+ kx -10				
n-2 n-2				
Substituté with 2				
Bm 4+2k-10				
N->2 2-2				
_ Um 2k-6				
N-72 0				
constant = ± 00	(2k-6)	must be zei	O O	
0				
2k-6=0 =>	(=3			





$\left(n^2 + n - 6 \right)$	if n = 2			
$f(x) = \begin{cases} x \\ x \end{cases}$	'			
	if a = 2			
	'			
8. lim A = A				
2-5-1				
lim f(n)				
2-2-14				
- Lim n²- n-2				
2-1+ 2+1				
_ lim (n-2)(x+1)				
2-7-1 (12-2) (2-1)				
= lim (x-2)				
1 -2				
3				
·· D & am bis				
: f is continuous : A=-3				
∴ A= -3				
0 12 13 75				
9. Pinching Theorem 4 Jan is squeezed by 9(x) 6(x) 7	, ,			
gy for is squeezed by	two other	Junctions		
$g(x) \leq f(x) \leq$	h(x)			
$\lim_{n\to c} q(c) = \lim_{n\to c}$	= (K)	Vm f(x)		

