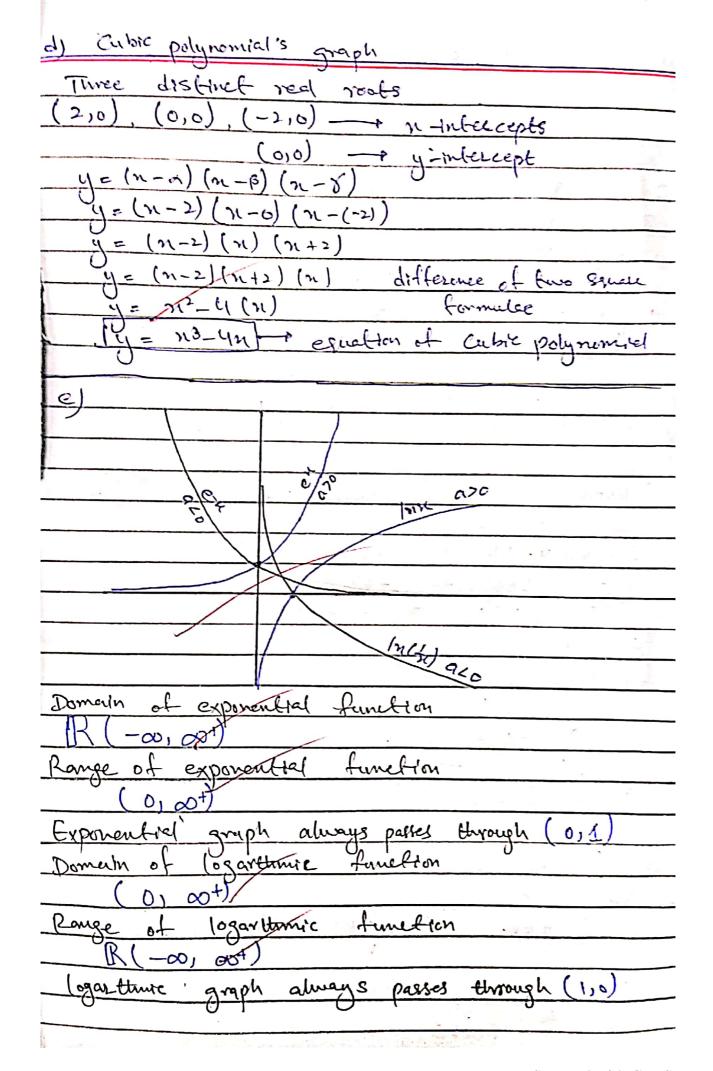


Question No	21- Solve	and Ske	teh the inequilities.	
(i) (x+1) (n-				
(n+4)				
Solution	A-10-4			
[n+1] (n-	s) 70(n+	July Ind.	Intervals	
(n+1) (n-3) >>0			(-1, 3)	
n2-3h+n-3170		(-∞,	(-00, -17(+1, 3) [3,00°)	
n (n-3)+1(n-3) 7/6		-4 .3 -	-4 -3 -1 -1 -1 2 3 4	
(n+1) (n-3) 20		$[-\infty,-1]$ $[3,\infty)$		
[n7,-1][n7,3]				
n= -2	M=0		x=4	
		2-3) %0	(n+1)(n-3) 20	
(n+4)	(n-	tu)	(n+4)	
(-1) (-5) 7/1	<u>(i)</u>	(-3) 70	(5) (1) 20	
		1	8	
15/2 7/0 V		3/470	5/8 7/6	
True False True			True	
ii) x2-x212				
Belietion D. M.				
$\frac{1}{2} - \frac{1}{2} = \frac{1}$				
n2-4n + 3n -12				
n(n-4) +3(n-4) 40		(.	(-3,4)	
(n+3) (n-4) CU				
[n 2-3] M24]				
n = -4 $n = 0$		n=5		
N2-N L 12 N2-N L 12			$n^2-n L 12$	
[-45-64)212			(5)2-(5)212	
16+4212	10-125		25-542	
26 6 12	Tana		20212	
False	False True		Falk	
B.	a south age to be fit.		, =\	



a) find the slope and y-intercept of the live that is  parallel to $2n+3n=5$ and $2n+3n=5$ and $2n+3n=5$ and $2n+3n=5$ and $2n+3n=5$ and $2n+3n=5$ and $2n+3n=5$ are solution.  Solution  Solution  Solution  Solution $3y = 5-2n$ $3y = 5-2n$ $3y = 2n+5$ $3y = 2n+5$ $3y = 2n+5$ $3y = 2n+5$ $3y = 2n+1$ $3y + 2n = 2n+2$ b) find $f(2+h) - f(2)$ if $f(n) = x^2 + 2n = 1$ $f(2+h) = (2+h)^2 + 2(2+h) - 1$ $f(2+h) = (2+h)^2 + 2(2+h)^2 + 2$
Solution  Solution  Solution  Solution  Solution  Solution  Sy = 5-2n  Cy = -2n + 5  Cy = (-1)/=-2 (n-1)  A g = mn + c  M = 2/3  Sy + 2n + 1 = 6  Find $f(2+h) - f(2)$ if $f(n) = n^2 + 2n - 1$ Solution $f(2+h) = (2+h)^2 + 2(2+h) - 1$ $f(2+h) = (2+h)^2 + 3(2+h) - 1$ $f(2+h) = (2+h)^2 + 3(2+h)$
Solution  Solution  Solution  Solution  Sy = 5-2n  y = y = m(n - n)  y = -2n + 5  y = (-1)/2 - 2n (n - 1)  3
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
$y = \frac{5-2n}{3}$ $y = \frac{1}{3}$ $y + \frac{1}{3} = \frac{1}{$
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
3(y+1) =-2(x-1) 3(y+1) =-2(x-1) 3y+3=-2h+2 3y+2n+1=6 4 y +2n+1=6 6 y +2n+1=6 6 y +2n+1=6 6 y +2n+1=6 6 y +2n+1=6 6 y +2n+1=6 1 y +2n+1=6
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
b) find $f(2+h) - f(2)$ if $f(n) = x^2 + 2n - 1$ h  Solution $f(2+h) = (2+h)^2 + 2(2+h) - 1$ $f(2+h) = (2+h)^2 + 2(2+h) - 1$ $f(2+h) = h^2 + 4h + 4h + 2h - 1$ $f(2+h) = h^2 + 6h + 7 \rightarrow f(2+h)$ $f(2) = x^2 + 2n - 1$ $f(2) = y + 4 - 1$ $f(2) = y + 4 - 1$
b) find $f(2+h) - f(2)$ if $f(n) = x^2 + 2n - 1$ Solution $f(2+h) = (2+h)^2 + 2(2+h) - 1$ $f(2+h) = (4+4h+h^2) + 4+2h - 1$ $f(2+h) = h^2 + 4h + 4(4+2h - 1)$ $f(2+h) = h^2 + 6h + 7 \rightarrow f(2+h)$ $f(2) = x^2 + 2n - 1$ $f(2) = x + 4 - 1$ $f(2) = x + 4 - 1$
b) find $f(2+h) - f(2)$ if $f(n) = x^2 + 2n - 1$ h  Solution $f(2+h) = (2+h)^2 + 2(2+h) - 1$ $f(2+h) = (2+h)^2 + 2(2+h) - 1$ $f(2+h) = h^2 + 4h + 44 + 2h - 1$ $f(2+h) = h^2 + 6h + 7 \rightarrow f(2+h)$ $f(2) = x^2 + 2n - 1$ $f(2) = (2)^2 + 2(2) - 1$ $f(2) = 4 + 4 - 1$ $f(2) = 4 + 4 - 1$
$f(2+h) = (2+h)^{2} + 2(2+h) - 1$ $f(2+h) = (4+4h+h^{2}) + 4 + 2h - 1$ $f(2+h) = h^{2} + 4h + 4u + 4u + 2h - 1$ $f(2+h) = h^{2} + 6h + 7 \rightarrow f(2+h)$ $f(2) = x^{2} + 2n - 1$ $f(2) = (2)^{2} + 2(2) - 1$ $f(2) = 4 + 4 - 1$ $f(2) = 4 + 4 - 1$
$f(2+h) = (2+h)^{2} + 2(2+h) - 1$ $f(2+h) = (4+4h+h^{2}) + 4 + 2h - 1$ $f(2+h) = h^{2} + 4h + 4u + 4u + 2h - 1$ $f(2+h) = h^{2} + 6h + 7 \rightarrow f(2+h)$ $f(2) = x^{2} + 2n - 1$ $f(2) = (2)^{2} + 2(2) - 1$ $f(2) = 4 + 4 - 1$ $f(2) = 7 \rightarrow f(2)$
$f(2+h)= (4+4h+h^{2})+4+2h-1$ $f(2+h)= h^{2}+4h+4+2h-1$ $f(2+h)= h^{2}+6h+7 \rightarrow f(2+h)$ $f(2)$ $+f(2) = \chi^{2}+2n-1$ $f(2)= (2)^{2}+2(2)-1$ $f(2)= 4+4-1$ $f(2)= 7$
$f(2+h) = h^{2} + 4h + 4u + 2h - 1$ $f(2+h) = h^{2} + 6h + 7 + f(2+h)$ $f(2)$ $+ f(2) = n^{2} + 2n - 1$ $f(2) = (2)^{2} + 2(2) - 1$ $f(2) = 4 + 4 - 1$ $f(2) = 7 + f(2)$
$f(2) = \chi^{2} + 2\pi - 1$ $f(2) = (2)^{2} + 2(2) - 1$ $f(2) = (1 + 1) - 1$ $f(2) = (2) + (2) - 1$
$f(2) = \chi^{2} + 2\eta - 1$ $f(2) = (2)^{2} + 2(2) - 1$ $f(2) = \chi + \chi - 1$ $f(2) = \chi + \chi - 1$
f(2)=4+1-1 f(2)=7 -> f(2)
$f(2) > 7 \longrightarrow f(2)$
f(2+h) - f(2)
h
$= \frac{(h^2 + 6h + 7) - (7)}{(1)}$
<u> </u>
$= \frac{h^2 + 6h}{h} = \frac{h(h+6)}{h} = \frac{h+6}{h}$
f(2+h) - f(2) _ [N+6]
h M+6

by Solve for real of 8 y, n+14= (1-1)(2+8i)
Solution
ntiy= (1-i)(2+8i)
n+1/2 = 1 (>+8i) -i(>+8i)
nting = 2481-21-812
71+iy = 2-+61-8(-1)
nary = 2461.48
24ty = 10+6i
Using Comparing method  n=10) and y=6
[n=10] and 14=6]
[verifying]
1 = 10 and y=6 n+iy= (1-i) (2+8i)
10+6i=1(2+8i)-i(2+8i)
$= 248(-2i-8)^{2}$
= 2+61-8(-1)
= 2+6i+8
= 61 +10
Trotti= 6it10) verified