Pag 168	( ) ( ) = ( ) ( ) ( ) ( ) ( ) ( ) ( ) (
Pag 168 49 a) 25x>23x+10	
Dane = 2>1 - D5X>3X+10	3 - 43 3-43
5X-3X>10	
2X > 10	
X > 5	
-5-X <sup>2</sup> -4	
b) 35-x2<3-4 Na have = 371-05-x2<-4.	$(x) = (x) = 0 + x^2 + 9 = 0$
	$(x) = (x) = 0 + x^2 + 9 = 0$ $-x^2 = 9$
5-X2+4<0	x2=9
$-x^2+9<0$	X + V9
Marie Control of the said	X+3
$(c) 3^{\times -2} > 9 $ (d)	3×+1 + 2×+2 / 108
3×-2>32	3'+3×32/108 - 2×19
hase = 3>1-1> X-2>2	$3^{\times +1} + 3^{\times +2} < 108$ $3' + 3^{\times} 3^{2} < 108$ $3^{\times} < 9$ $3^{\times} < 3^{2}$
X 72+2 4.3	4 3× < 3 <sup>2</sup> 1+y3 <sup>2</sup> <108
×74	+49 < 108
12.	108
	(9
9	< 9
500) 1/9× (16 b)	1 < 1×-3 < 1
$\begin{array}{c} 50 \text{ a.} & 1 < 2^{\times} < 16 \\ 2^{\circ} < 2^{\times} < 2^{\circ} \end{array} $ b).	$\frac{1}{2} \leq 2^{x-3} \leq \frac{1}{2^{1}} $
hose = 271-00<×<4 2	$-2 < 0 \times -3 \neq 0 = 1$
0	50=271-0-2 \(\xext{X}-3\xext{\left}-1\)
	$-2+3 \le x \le -1+3$
	$+1 \le X \le 2$
The same of the sa	

END: X-1
51) f(x)=3x-1; g(x)=3x & R(x)=4+ R(x)+g(x) > R(x): 201
2 X - 1 . 2 X - 1
3×-1+3×24
$\frac{3^{\times} + 3^{\times} > 4}{3^{7} + 1}$
$\frac{3}{3} + \frac{3}{3}, \frac{3}{2} \ge \frac{4}{3}$
$\frac{3}{3^{\times}} \frac{7}{3^{\times}} \frac{3}{3} \ge 12$
$\frac{3^{\times} \ 3^{\times} 3 \ge 12}{3 \ 8 \ 8} $ (d
4.3 > 12
3* ≥ 12 4
3×23' (b) (c)
hase= 371 + x21
· · · · · · · · · · · · · · · · · · ·
52 a) ((x)= 12-16
2×-1620 Jase=271
$2^{\times} \ge 0 + 16 \qquad \times \ge 9$
2× ≥ 24 D= {x ∈ /R/x ≥4}
$\frac{1}{2} \int f(x) = \sqrt{(7^{x})^{x}} - 7^{2x} \int_{-7^{x}}^{7} x^{2} \ge 2x^{2} $
$\frac{-5)(x)^{-1/4}}{(7^{2})^{2}-7^{2}\times \geq 0} \qquad \frac{1}{(x)=x^{2}-2x}$
7xx-72x20 raises: (x)=0
$7^{x \cdot x} - 7^{2x} \ge 0$ ranges: $f(x) = 0$ $7^{x^2} \ge 0 + 7^{2x}$ $x^2 - 2x = 0$
x(x-2)=0
hose = 771-17 x2 2x - x=0 ou x=2

PAG ICC	
PAG 166 410) 5x-2x = 105 d) 101-x = 1 5x^2-2x = 53	2=17+45
410)5 = 125 d) 10 -x = 1	2536,59
5 - 2 = 5 = 10	
$x^2 - 2x = 3 = 0$ $10^{1-x} = 16$	51 9 - 12 2 16 37
a=1/b=-2/c=-3 $1-x=-1$	
-X2-2	1854 1830 1
S=2 X=4 X=2,	11 4 71
P=-3 X=3	A STUDIO
11V 2-	20 3 4 1 6 14 5 6 19
e) $2^{4x-x^2} = 8$ $A = 4^2 - 4(-1)(-1)$	3)
$2^{4x-x^2} = 2^3$ $A = 4$	1515/
$4x-x^2-3=0$ $x=-4+1$	4
a=-1/b=4/c=-3 2(-	1) NV - 1
X = -4 + 2	1) px1=1
	PX2 = 3
R) 3x-5=271-x	
$3^{x-5} = (3^3)^{1-x}$	
3×-5= 3 <sup>3-3</sup> X	The state of the s
X-5x=3+3	-/ AA
4 x = 8	12.6
x = 2	- I SA
43 b) 2×+3,2×+1+2×=88	0=8=10 = 1=(d
2,2+2,2+2×=88	aleks of these
8.2 × + 2.2 × + 1,2 × = 88	
11. 2×=8	- 22 5000 1 10
2×=18	7-13 1-18
$2^{\times} = 2^{3} + 7 \times = 3$	- C = / O = C = 1

c) 7x+7x-1=8 . d) 4,2x+2x-1=72 33: 219
c) $7^{x}+7^{x-1}=8$ d) $4.0^{x}+3^{x-1}=72$ 33: $9.49$ $-7^{x}+7^{x}=8$ $4.3^{x}+2^{x}=72$ (0) 19
+
$\frac{7^{\times} + 7^{\times} = 8}{7^{2} + 7^{2}} = \frac{4 \cdot 2^{\times} \cdot 2 + 8^{\times} = 72}{1 \cdot 2 \cdot 2 \cdot 1 \cdot 2}$
$\frac{7^{\times} + 7^{\times} = 8}{7 + 1} = \frac{4.2^{\times}.2 + 2^{\times} = 72}{1.2}$
$7^{\times}.7 + 7^{\times} = 8.7$ $8.2^{\times} + 1.2^{\times} = 144$ $9.2^{\times} = 144$
$7.7^{\times} + 7^{\times} = 56$ $2^{\times} = 149$
7,7×+1,7×=56
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
x=1 $x=4$
0-00-00
$44a)3^{2} + 2.3^{2} - 13 = 0$ $y^{2} + 2.y - 15 = 0$
$(3^{x})^{2} + 2.3^{x} - 13 = 0$ $\alpha = 1/6 = 2/c = -19$
S=-2 x=3
P=-13 X=-5
y = 3 y = -5 3×=3 3×= -5 Naio
3*=3!
<u> </u>
12/4 9 0 2 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
b) $4^{\times} - 9.2^{\times} + 8 = 0$ $y^{2} - 9.9 + 8 = 0$ (4 6) $(2^{\times})^{2} - 9.2^{\times} + 8 = 0$ $\alpha = 1/b = -9/c = 8$
$\frac{S=9 \times 21}{91=1 \ 92=8}$ $P=8 \times 8$
$y_1=1$ $y_2=8$ $P=8$ $x=8$ $y_2=8$ $y_3=1$ $y_4=8$
X=0 X=3

c) $9^{x} - 4.3^{x} + 3 = 0$ $(3^{x})^{2} - 4.3^{x} + 3 = 0$	(2-4, +2=0)
$(3^{\times})^2 - 4.3^{\times} + 3 = 0$	g <sup>2</sup> -4g+3=0 18 11 49 a=1/b=-4/c=3 15
	S=4 X=1
1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	P=3 X=3
$\frac{9/=1}{9^{\times}=3^{\circ}}$ $\frac{9/=3}{3^{\times}=2^{\circ}}$	
3×=3° 3×=3'	2:446,460
X=0 X=1 = 101 1-5	4
( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	S-S- CERXE
45) (x)=(4)4x-x g(x)=(0,8)30	&- = B+ 16
	D=(-4)2 = 4,4(-3)
$\int_{a}^{b} (a) = g(a)$	A=69
$(4)^{4a^2-a} = (0,8)^{3(a+1)}$	(A+ (- ))
	- (-4)+ \( 69\)
(0,8)4a-a=(0,8)3(a+1)	D X1=2
$-4a^2-a=3(a+1)$	14+8 (84
-4a - a = 3a + 3	8 px = -1 (84)
<u>40</u> <sup>2</sup> 40-3=00	2
0=9/b=-9/c=-3	- De Pros Million
(16) 0×+9 1	· Care
$\frac{46}{3^{\times +}9} = 1$	AT ME STORY
3 0-3	- C - C - C - C - C - C - C - C - C - C
$\frac{1}{x+y=0} \qquad 2^{x^2y}=2$	V-1 -
$\begin{array}{cccc} x + y = 0 & 2 \times 2y = 2 \\ x = 0 - y & 2^{x + 2y} = 2 \end{array}$	1
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
- y=1	

47 (4) 29 = 1/4 = 6
$\frac{47  54 \times 89 = /4}{9 \times 27^{29} = 3}$
$\frac{4^{x}.8^{y}=1}{4} \frac{9^{x}.27^{2y}=3}{(3^{2})^{x}.(3^{3})^{2y}=3}$
4 (32)× (23)29=3
$\frac{(2)^{2} (2)^{3} (2)^{3} = 1}{2^{2}} \frac{3^{2x} (3^{32} y) = 3}{3^{2x} + 6y} = 3$
22
/ / / / / / / / / / / / / / / / / / / /
2119-2
2x = -2 - 3y - 3y + 6y = 9 + 2
$-2 \times = 2 - 3.1$ $3g = 3 + 2g = 2 = 1$
2x=-2-3
$2 \times = -5 + 7 \times = -5$
(19) 1(1) (X-1) (X-1) (X-1)
48) f(x)=4x-1 +> y=4x-1 8) g(x)=2+> y=2 ii)
- 1,×-1
$ \begin{array}{c} q = 4^{x-1} \\ 2 = 4^{x-1} \end{array} $
$\frac{2=9}{2}$
$\frac{-2}{1=2\times -2}$
$\frac{1+2=2x}{1+2=2x}$
3=2X
3 = x 2 v - 3
$\frac{3-5}{2}$ $\times = \frac{3}{2}$
2