Date

fert of
Kerta

Latihan 6
1. X3-4x <0
$X(X-2)(X+2) \neq 0$
X = 0 , $X = 2$ , $X = -2$
1/////
7/1/4// + 1//// +
HP= {x   x <-2 dtau 0 < x < 2 }
= (-\omega, = 2] atau [0,2]
[0]2]
$2 \cdot X^2 - X - 12 > 0$
(x-4)(x+3)70
x=4 x=-3
7/4/1
7/1/1 - 7/1/
1+p= [x   x <-3 atau x > 4]
= (-∞, -3) atau (4,∞)
$3. 1-\chi^2 < 2x-14$
$1-x^2-2x+14 \le 0$
x <sup>2</sup> +2x+i5 <0
(x +5)(x-3)
X=-5 X=3
1
11+/1 - /+//
3
Hp = {x   x < -5 atau x 7,33
= (-00,-5] Atau [3,00)+
4. 3x-1 < 5 < x+10
3x-1 <5 dan 5< x+10
3×<6 -5.5×
x<2
40-5x1 # (x(24 - (-5,2)

(2,4,5)
5. 2x +1 & X-2 <1+x
2x+1 <x-2 <1+x<="" dan="" td="" x-2=""></x-2>
X5-3 dan 053 (tener)
G & ER
HP= { x   X ≤-3; x ER}= (-∞, -3]
6.1 <1
X
1 -1 < 1-1 /// + ///
$\frac{1-x}{x} < 0, \qquad q \qquad \frac{1}{x}$ $\frac{1-x}{x} < 0, \qquad q \qquad \frac{1}{x} = $
$x=1$ , $x=0$ = $(-\infty,0)$ atau
× ±0 (1,∞)
7. 1 > x
X
1-x>0 / +/ - \ \ \ / - \ \ \ /   - \   \ \ \   - \   \ \   \   - \   \ \   \
-1 0 1
1-x2 7,0 Hp: [x/x<-1 and 0 <x<1< td=""></x<1<>
× = (-00,-1]atau (0,1]
x=-1 } x=1 } x=0
710
B. (x-1)(x+2)3 50
$\frac{(3 \cdot x)^2}{(3 \cdot x)^2}$
X=1', X=-2', x=3→ x ≠3
+ ///+ +
2 3 000
Hp= {-2 < x < 1 } = [-2, 1]
9. $x^2 - 1 > x$
X
x²-1 -x 7,0
× <sup>2</sup> -1 - × 7, 0
x <sup>2</sup> -1-x <sup>2</sup> 7,0
X

The Date

-1 2'0	13. 15 - 342 7,3
y Hope	15-3127,3
X=0;X±0	15-3f-37,0:3
/ <del>/</del> // <b>-</b>	5-22-170
0	t2-4 <0
hp = {x   x < 0 } = (-∞, 0)	(t+2)(t=-2)
• \	t=2 t=2
10. T°C = 4 T°R	hTM, karena water \$ <0
S	
Ca -10°C ; Cab = 20°C	+ \//-/// +
R3	-2 2 2
4.c √4.c √4.c 5 5 5	Mamun, Karena warm tak boleb
5 5	- (minus) maka
$\frac{4}{5}$ . $(-10)$ $(\frac{4}{5}$ . $(\frac{4}{5}$ . $(\frac{20}{5})$	
5 5	\////
-8 (4.0 < 16	-2 0 2
5	Schinoga Hp= {x   0 < x < 2 }
11. V = 200	= [0,2]
Pa = 440; Pb = 5500	
1 = ?	14.1. +1 =1
P: VXI	Ri R2 R
P < P < P	R1 = X R2 = 6 R7,3
V V V	7 - +1 -1
440 < P < 5500	$R_1 = \frac{1}{R_2} R_2$
220 220 220	1+171
2 5 P < 25	$R_1$ 6 $\sqrt{3}$
220	171-1
	Ki 13 6
12. L 7, 900	1 7,2-1
±= 5×5 7,900	R <sub>I</sub> 6
S <sup>2</sup> 7,900	1 = 1
5²- 900 710	/ R. 71 &
(s-30)(s+30)	K 716
S = 30 S = -30	47,6 4pgx1x7,6 }=[6,00)
Hp= (x   x 7, 30 ] = [30,00)	

n.		
10	4	-9
1-	•	- 1

15. a. f(x) = 3x+1 DF= {x | x | IR} WF = 2 x | K | R } £. g(x)= 1+2V1-x2 df={X|XER; \$\( -x^2 7/0 \)} {X|XER; (1-x)(1+x)7/0 } \( \frac{2}{2} \times \frac{1}{2} \

b. g(x) = x2-2x+1 Df = { x | x ∈ R } Wif (x-1)2 >,0 (x1xER; -1 <x<1)

VI- x2 70 Wf= {x | X ER; x 7,03

 $= [X, \infty)$ 

 $c \cdot h(x) = \frac{2x - 1}{3x + 1}$ 

=) 3×+1+0 Df= {X|x+-1/3,XER]

x = 1/3 ·> 與 h(x) = -x-1 3x-2

3x-2 +0 Wf={x|x+<sup>3</sup>/<sub>3</sub>, 3x + 2 X ∈ R } x + 2/<sub>3</sub>

d, f(x)=1-2 sinx df: {x| x f lR } .) -1 < sinx <1

-1 < 51nx < 1 -2 < 5:n x < 2 \*2 >, -25:nx >,2 +1

3 7/1-25mx7,-1

-1 51-251nx, (3

Wp. { x | -1 < x < 3 } = [-1,03]