Equation assignment sequence for variable \boldsymbol{x}

no	var	equ	quations
18	18	-	$M^{A,\beta}{}_N :: $ port variable
17	17	-	$M^{A,\alpha}{}_N$:: port variable
16	3	_	# :: port variable
15	14	_	$K^{A,\beta}{}_A$:: port variable
14	36	_	$D_{N,A}$:: port variable
13	13	_	$K^{A,\alpha}{}_A :: \text{port variable}$
12	8	_	$F_{N,A}$:: port variable
11	1	_	t :: port variable
10	22	28	$\pi^{A,\beta}{}_{N} := \text{Instantiate}(\pi^{A,\beta}{}_{N}, \#)$
9	22	8	$\pi^{A,\beta}{}_N := M^{A,\beta}{}_N \cdot x_N$
8	76	63	$u_A := \text{Instantiate}(u_A, \#)$
7	21	7	$\pi^{A,\alpha}{}_N := M^{A,\alpha}{}_N \cdot x_N$
6	21	27	$\pi^{A,\alpha}{}_N := \text{Instantiate}(\pi^{A,\alpha}{}_N, \#)$
5	81	76	$\hat{x}^{A,\beta}{}_A := K^{A,\beta}{}_A \cdot D_{N,A} \stackrel{N}{\star} \pi^{A,\beta}{}_N$
4	80	75	$\hat{x}^{A,\alpha}{}_A := u_A \cdot K^{A,\alpha}{}_A \cdot D_{N,A} \stackrel{N}{\star} \pi^{A,\alpha}{}_N$
3	26	12	$\hat{x}^{A,\beta}{}_N := F_{N,A} \stackrel{A}{\star} \hat{x}^{A,\beta}{}_A$
2	25	11	$\hat{x}^{A,\alpha}{}_N := F_{N,A} \stackrel{A}{\star} \hat{x}^{A,\alpha}{}_A$
1	29	16	$\dot{x}_N := \hat{x}^{A,\alpha}{}_N + \hat{x}^{A,\beta}{}_N$
0	9	20	$x_N := \int_{t_o}^{t_e} \dot{x}_N \ dt + x^o_N$