

1, tentukan persamaan linier

Dengan matrik

$$\begin{aligned}
 P_1 : & \quad x_1 - x_2 + 2x_3 - x_4 = -8 \\
 P_2 : & \quad 2x_1 - 2x_2 + 3x_3 - 3x_4 = -20 \\
 P_3 : & \quad x_1 + x_2 + x_3 = -2 \\
 P_4 : & \quad x_1 - x_2 + 4x_3 + 3x_4 = 4
 \end{aligned}$$

	3	2	-1	4				12
	6	-10	3	1				70
	1	1	1	1	=			10
	2	1	-1	1				16
x1	-0.22	0.04	0.25	0.58				12
x2	-0.12	-0.07	0.32	0.23				70
x3	-0.11	0.02	0.62	-0.21				10
x4	0.45	0.01	-0.19	-0.60				16
x1	12							
x2	1							
x3	3							
x4	-6							
x1	12							
x2	1							
x3	3							
x4	-6							

2. solusi spl dengan gauss Jordan



2. Tentukan solusi SPL berikut ini :

$$\begin{aligned}
 3w + 2x - y + 4z &= 12 \\
 6w - 10x + 3y + z &= 70 \\
 w + x + y + z &= 10 \\
 2w + x - y + z &= 16
 \end{aligned}$$

		3	2	-1	4	12	
		6	-10	3	1	70	
		1	1	1	1	10	
		2	1	-1	1	16	
	b1/3	1	1	0	1	4	
	b2-6*b1	0	-14	5	-7	46	
	b3-1*b1	0	0	1	0	6	
	b4-2*b1	0	0	0	-2	8	
	b1-1*b2	1	0	0	1	7	
	b2/-14	0	1	0	1	-3	
	b3	0	0	1	0	6	
	b4	0	0	0	-2	8	
	b1-1*b4	1	0	0	0	11	
	b2-1*b4	0	1	0	0	1	
	b3	0	0	1	0	6	
	b4/-2	0	0	0	1	-4	
=							