1. 
$$x + 2y + 4z = 11$$
  
 $2x + 5y + 2z = 3$   
 $4x - 4 + z = 8$ 

matriks koefisien

Matriks Koefisien (zynedłum)
$$\begin{bmatrix}
1 & 2 & 4 & 11 \\
2 & 4 & 11
\end{bmatrix}$$
OPE cari
$$\begin{bmatrix}
1 & 2 & 4 & 11 \\
0 & 1 - 6 - 19
\end{bmatrix}$$
Oselun
$$\begin{bmatrix}
0 & 1 - 6 - 19 \\
0 - 9 - 15 & -36
\end{bmatrix}$$
O - 69 - 207

Fi(X,Y) = X-Y+2 denian 
$$X^{\circ}$$
 = 2

Fi(X,Y) = X-Y+2 denian  $X^{\circ}$  = 2

Cari furunan 2 funysi dicutas termadap X dan Y

 $\frac{\partial F_1}{\partial X} = 1$ 
 $\frac{\partial F_2}{\partial X} = 2X$ 
 $\frac{\partial F_1}{\partial X} = 1$ 
 $\frac{\partial F_2}{\partial X} = 2X$ 
 $\frac{\partial F_1}{\partial X} = 1$ 
 $\frac{\partial F_2}{\partial X} = -1$ 

Cari Rilai Fi dan Fo densan  $X = X^{\circ}$  dan  $Y = Y^{\circ}$ 

Fi(2, 4) = 2-4+2=0.

Fi(2, 4) = 2-4+2=0.

Fi(2, 4) = 2-4+2=0.

Fi(2, 4) = 2-4-4=-4

Subtitusihan hashinya ke persamaan

Xi+1=Xi = Vi  $\frac{\partial V}{\partial X} - Vi \frac{\partial V}{\partial X}$ 
 $\frac{\partial V}{\partial X} - Vi \frac{\partial V}{\partial X} - Vi \frac{\partial V}{\partial X}$ 

Yi+1=Yi =  $\frac{Vi \frac{\partial X}{\partial X} - Vi \frac{\partial V}{\partial X}}{\sqrt{X}}$ 
 $\frac{\partial Vi}{\partial X} - \frac{\partial Vi}{\partial X} - \frac{\partial Vi}{\partial X}$ 

Yitl =

Jehingga XI dan Y, (iterasi ke-1)  

$$1 \times 1 = 2 - \frac{0(-1) - (-1)(-1)}{(1.(-1)) - (-1)(-1)}$$

$$= 7 - \frac{4}{-1 + 4} = 2 - \frac{4}{3}$$

$$= 2 + \frac{4}{3} = 3,33...$$

$$Y_{1} = 4 - \frac{(-9)(1) - o(4)}{(11)(-1) - (-1)(4)}$$

$$= 4 - \frac{-4}{-1 - (-9)}$$

$$= 4 - \frac{-9}{3}$$

$$= 4 + \frac{9}{3}$$