3-Vakiaces Systrins
Elimination
where 3 planes intersect $z$

$$
\begin{aligned}
\text { Eliminaran } \\
\qquad \begin{aligned}
&-4 \\
&-3 x+y+7 z=-12 \\
& 4 x-3 y+6 z=38
\end{aligned}
\end{aligned}
$$

(1)

$$
\begin{array}{r}
-3 x-24 y-6 z=36 \\
3 x+y+7 z=38 \\
\hline-23 y+z=74
\end{array}
$$

(2)

3

$$
\begin{aligned}
{[-23 y+z} & =74] \\
-35 y-2 z & =95 \\
-46 y+2 z & =148 \\
-35 y-2 z & =95 \\
\frac{-81 y}{-81} \quad y & =-3
\end{aligned}
$$

3-Variable Elimination
Group 2 of the equations 4 eliminate a variable.
2) Group a different pair of equations $t$ eliminate the same vanable.
3) Grove the 2 resulting equations from steps $1+2+$ eliminate a variable.
4) Sub answer in a 2 -variable $e q$ - to find a 2 nd variable.
5) Sub both answers $m$ a 3-variable eq. v solve.

$$
\begin{aligned}
& 3 x+2 y-z=12
\end{aligned}
$$

$$
\begin{aligned}
& z=\frac{-9}{-9}=1
\end{aligned}
$$

Calculator

$$
\frac{\operatorname{Cclculator~}}{\operatorname{det}\left(\left[\begin{array}{c} 
\\
\vdots \\
\hline
\end{array}\right]\right)}
$$

$$
x=\# \text { of } \sin t
$$

$y=\pi$ of chaus
$z=\#$ of love sents

$$
x+2 y=1000
$$

$$
x-z=1200
$$

