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Class $\mathbf{- 1 2}^{\text {th }}$
Worksheet-23

Chapter-5
(i) $2 x+3 y=9$
(ii) $2 x-7 y-13=0$
$3 x-2 y=7$

$$
5 x+6 y-9=0
$$

2. Prove that the following system of equations are incosnstent:
(i) $3 x+y+2 z=3$
(ii)
$x+6 y+11=0$
$2 x+y+3 z=5$
$3 x+20 y-6 z+3=0$
$6 y-18 z+1=0$
3. Solve the equations using Cramer's rule:
(i) $x+2 y+4 z=16$
$4 x+3 y-2 z=5$
$3 x-5 y+z=4$
(ii) $2 x+y-z=0$
$x-y+z=6$
$x+2 y+z=3$
4. Solve the equations using determinants :

$$
\begin{aligned}
& \frac{2}{x}+\frac{3}{y}+\frac{10}{z}=4 \\
& \frac{4}{x}-\frac{6}{y}+\frac{5}{z}=1 \\
& \frac{6}{x}+\frac{9}{y}-\frac{20}{z}=2
\end{aligned}
$$

5. Solve the equations using matrix method:
(i) $x+y-z=1$
(ii) $6 x-12 y+25 z=4$
$3 x+y-2 z=3$
$4 x+15 y-20 z=3$
$x-y-z=-1$
$2 x+18 y+15 z=10$
