## System of linear equations (Cramer's rule):

$(iii)$ If $\Delta = 0$ , but at least one of $\Delta_x$ , $\Delta_y$ , $\Delta_z \neq 0$ ,
system of equations is inconsistent and has no solution.

| | | | |
|---|---|---|---|
| $\Delta \neq 0$ | | Consistent system | Unique solution |
| $\Delta = 0$ | $\Delta_x = \Delta_y = \Delta_z = 0$ | Consistent system | Infinite solution |
| | at least one of $\Delta_x$ , $\Delta_y$ , $\Delta_z \neq 0$ | Inconsistent system | No solution |

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