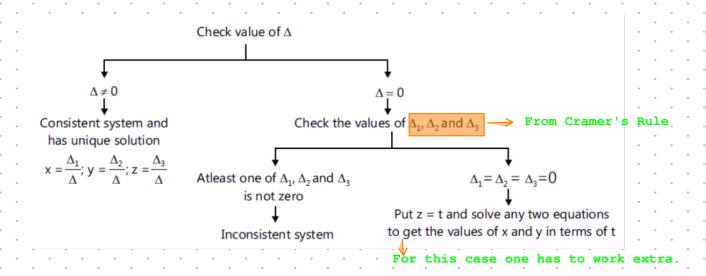
Tips and Tricks:

Note: Concept of solving System of Linear Equations using Determinants is the most important one from this chapter. I am almost sure there will be one question from this concept in JEE Exam. So do learn this one.

Tip-1

Homogeneous linear equations, always possess at least one solution i.e. (0, 0, 0). It is also called TRIVIAL solution. And if det is zero then there are infinite solutions.

Tip-2



Tip-3

(a)
$$ax^2 + 2hxy + by^2 + 2gx + 2fy + c = 0$$
 represents a pair of straight lines if

$$abc + 2fgh - af^2 - bg^2 - ch^2 = 0 = \begin{vmatrix} a & h & g \\ h & b & f \\ g & f & c \end{vmatrix}$$

Tip-4

(b) Area of a triangle whose vertices are

. If D = 0 then the three points are collinear.