

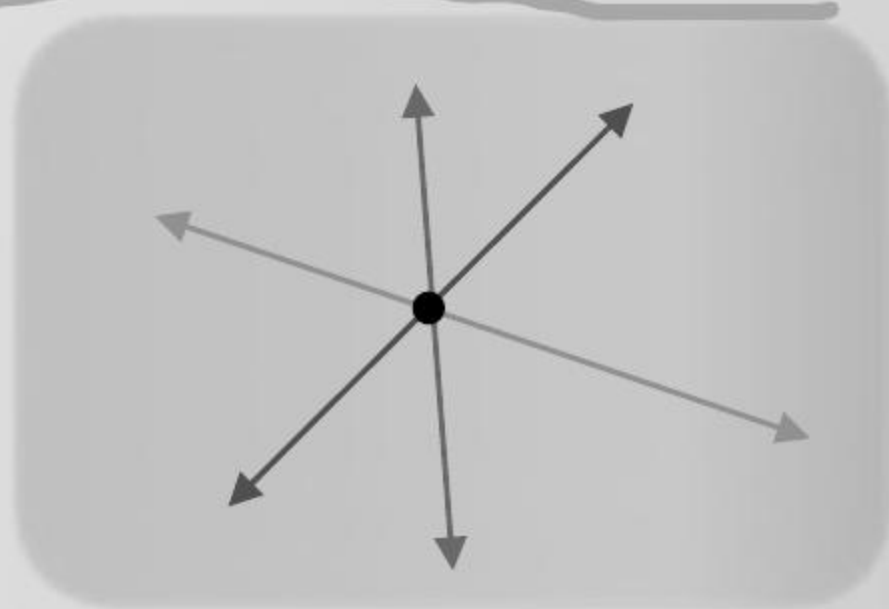


Key Takeaways



Two variables :

i) For consistent system , $\Delta = 0$ (concurrent lines)



$$\begin{aligned} a_1x + b_1y &= c_1 \\ a_2x + b_2y &= c_2 \\ a_3x + b_3y &= c_3 \end{aligned} \quad \Delta = \begin{vmatrix} a_1 & b_1 & c_1 \\ a_2 & b_2 & c_2 \\ a_3 & b_3 & c_3 \end{vmatrix}$$

ii) For inconsistent system , $\Delta \neq 0$

