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(Affiliated to CBSE up to +2 Level)

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solve each of the following system of equations by using the method of cross multiplication 6x-5y-16=0 7x-13y+10=0solution: 6x - 5y - 16 = 0 7x - 13y + 10 = 0 $\Rightarrow \frac{y}{-50 + (-208)} = \frac{y}{-112 - 60} = \frac{1}{-78 + 35}$ $\frac{x}{-258} = \frac{y}{-172} = \frac{1}{-43}$ $\Rightarrow \frac{\chi}{-258} = \frac{1}{-43} \qquad \begin{vmatrix} \frac{y}{-172} = \frac{1}{-43} \\ \frac{y}{-172} = \frac{1}{-43} \end{vmatrix}$ $\Rightarrow \chi = \frac{-258}{-43} = 6 \qquad \begin{vmatrix} y - \frac{172}{-43} = 4 \\ \frac{-43}{-43} = 4 \end{vmatrix}$ Hence x = 6 and y = 4 Ans 1) 3x+2y+25=0 (11) 2x+y-35=0 (11) $9^2x-6^2y=a^2b+ab^2$ 2x+y+10=0 3x+4y-65=0