

8.3 Practice Problems

Find the value of the determinant.

1. $\begin{vmatrix} 1 & -2 \\ -5 & 7 \end{vmatrix}$

2. $\begin{vmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \\ 7 & 8 & 9 \end{vmatrix}$

3. Use Cramer's rule to solve the system of equations.

$$\begin{cases} 2x+3y=8 \\ 3x+4y=-5 \end{cases}$$

4. Solve for x

$$\begin{vmatrix} x & -4 \\ -x & 3 \end{vmatrix} = 5$$