Solving Systems of Linear Equations

Today's Standard

8.EE.C8b - Solve systems of two linear equations in two variables algebraically, and estimate solutions by graphing the equations. Solve simple cases by inspection. For example, $3x + 2y = 5$ and $3x + 2y = 6$ have no solution because $3x + 2y$ cannot simultaneously be 5 and 6.

Cues	Notes
What is a system of linear equations?	A system of linear equations consists of two or more linear equations with the same variables.
How can systems of equations be solved algebraically?	Systems can be solved algebraically using substitution or elimination methods.
What are the methods for graphing systems of equations?	Graphing methods include plotting each equation and finding the intersection point.
What does it mean when a system has no solution?	A system has no solution if the lines are parallel and do not intersect.
How can real-world problems be modeled using systems of equations?	Real-world problems can be modeled using systems of equations to find unknown values.

Summary

Solving systems of linear equations involves finding the intersection points of two lines, either algebraically or graphically. This skill is essential for understanding more complex algebraic concepts and solving real-world problems.