Graphing Equations in Two Variables

Today's Standard

HSA.REI.D10 - Understand that the graph of an equation in two variables is the set of all its solutions plotted in the coordinate plane, often forming a curve (which could be a line).

Real-World Applications for this Standard

Plotting the trajectory of a ball in sports; Modeling economic supply and demand curves; Predicting population growth trends; Analyzing the path of a satellite; Designing roller coaster tracks

Today I Learned

Today, we learned that the graph of an equation shows all its solutions. These solutions are points on a graph that can make a line or a curve.

Common Stumbling Blocks

Some kids think all graphs are straight lines, but they can be curves too. Also, not all solutions are whole numbers; they can be fractions or decimals.

Quiz Me

- What is a graph?

- Can a graph be a curve?

- Are all solutions whole numbers?

- What does a graph show?

- Can a solution be a fraction?

Help Me

Graphs show us all the answers to an equation. For example, in sports, we can graph a ball's path. This helps us see where it will go!