Algebra 2
Unit: Linear and Quadratic Functions
Section: Solving Linear Equations and Inequalities

Example: Solving Linear Equations

Problem

Solve two times the quantity one-half x plus 5 plus 2x equals 16.

Solution

First use the Distribution Property. x plus 10 plus 2x equals 16.

Now combine like terms. 3x plus 10 equals 16.

Subtract 10 from both sides. 3x plus 10 minus 10 equals 16 minus 10. 3x equals 6.

Divide both sides of the equation by 3. 3x divided by 3 equals 6 divided by 3. x equals 2.