

SOLVING SYSTEMS OF LINEAR EQUATIONS BY ELIMINATION (DAY 2)

5-3 Solve Linear Systems by Adding & Subtracting

Today you must arrange each equation in **STANDARD FORM (Ax + By = C)** before using addition or subtraction to solve.



Example 2

9x - 3y = 183y = -7x + 30

Example 3

x = y + 32x - y = 5

Lowest Common Multiple

Find the lowest common multiple of the following:

b) 6 and 9

a) 2 and 3

c) 5 and 4

Sometimes, you'll see problems that you just can't simply multiply just one line to help you eliminate a variable. Today, you'll learn how to eliminate a variable by multiplying both equations with the help of the least common multiple.

Example 1

4x + 3y = 125x + 2y = 1

Example 2

2x + 3y = 103x - 4y = -2

Example 3

$$2x - 11y = 15$$
$$5x + 3y = 7$$