| Name: | Date: | |
|--|--------------------------------------|----------------------|
| 5.3 Solving Systems of Linear Equations By Elimination | | |
| Essential Question: | | |
| Step 1:, if necessary, on | ne or both equations by a constant s | so that at least one |
| pair of like terms has the | or coefficients | i. |
| Step 2: or the equa | ations to eliminate one of the | |
| Step 3: the resulting | · | |
| Step 4: the value from St | tep 3 into one of the | equations to |
| for the other variable. | | |
| EXAMPLE 1 Solving a System of by Elimination | of Linear Equations | |
| Solve the system of linear equations by elimi | ination. | |
| 3x + 2y = 4 Equation 1 | | |
| 3x - 2y = -4 Equation 2 | | |



Solve the system of linear equations by elimination.

- -10x + 3y = 1 Equation 1
- -5x 6y = 23 Equation 2

Example 2b 5x + 8y = 1-2x + 2 = 3y

Solving Real-Life Problems

EXAMPLE 3 Modeling with Mathematics

A business with two locations buys seven large delivery vans and five small delivery vans. Location A receives five large vans and two small vans for a total cost of \$235,000. Location B receives two large vans and three small vans for a total cost of \$160,000. What is the cost of each type of van?