

# MATH 210 FINITE MATHEMATICS

BRIAN VEITCH • FALL 2016 • NORTHERN ILLINOIS UNIVERSITY

## 2.1 System of Linear Equations - Introduction

### Example 1: From section 1.4

Solve the system of linear equations

$$\begin{aligned}x - 4y &= 20 \\ -\frac{27}{4}x + 3y &= 9\end{aligned}$$

## Substitution Method

## Addition Method

### Definition 1: Types of Solutions

**Example 2**

$$\begin{aligned}2x - y &= 1 \\6x - 3y &= 3\end{aligned}$$

**Example 3**

$$\begin{aligned}2x - y &= 1 \\6x - 3y &= 12\end{aligned}$$