



Apply systems of equations in solving problems

Achieved	Merit	Excellence
Apply systems of equations in solving problems.	Apply systems of equations, using <u>relational thinking</u> , in solving problems.	Apply systems of equations, using <u>extended abstract thinking</u> , in solving problems.
<u>Relational Thinking</u> - Involves selecting and carrying out a logical sequence of steps, connecting different concepts or representations, demonstrating understanding of concepts, and relating findings to a context.		
<u>Extended Abstract Thinking</u> - Involves devising a strategy, identifying relevant concepts, developing logical reasoning, forming generalizations, and communicating mathematical insight.		

Systems of Equations

The methods included in this standard are related to:

- Forming and using a pair of simultaneous equations, one of which is non-linear
- Forming and using a system of linear inequations
- Connecting different representations of equations or inequations
- Interpreting solutions of a system of equations or inequations in context

Problems

The problems will be set in real-life or mathematical contexts and provide opportunities to apply the knowledge and methods related to systems of equations.

Key Vocabulary

Students are expected to understand and use terms related to graphical methods, such as:

- Inequation
- Linear
- Non-linear
- Substitution
- System
- Variable
- Elimination
- Intersection
- Simultaneous