

## SIMULTANEOUS EQUATIONS SUMMARY

**For Year level(s): 10, 11, 12**

**This material relates to: ACMNA Link(s)/Reference(s)**

Solve linear simultaneous equations, using algebraic and graphical techniques including using digital technology (ACMNA237)

### Rationale for Use

It is expected that students will have access to an array of practice material in the form of text books or school prepared exercises. The purpose of the AMSI materials is to support the development of **understanding** and **reasoning** about the concepts involved. They complement and enhance the teacher instruction elements of normal classroom instruction.

### Short Explanation (1 paragraph)

Simultaneous Equations are so called because they describe what happens to the same variables under different conditions. Solving simultaneous equations is about finding the point, or points where both equations give the same results. There are several methods for finding these solutions. At year 10 we will explore the Graphical, Substitution and Elimination Methods. In year 11 we will add the Matrix Method as well.

### List of Resources

- 1) Simultaneous Equations Summary (pdf)
- 2) Using the applets (video)  
These applets are designed to help you practice the steps of each method. Your text books and other references will already have explanations of how the methods work.
- 3) Simultaneous Equations I – Geogebra Applet
- 4) Simultaneous Equations II– Geogebra Applet
- 5) Solving Using Matrices Video
- 6) Simultaneous Equations III – Geogebra Applet
- 7) [AMSI SAM Senior Module](#)
- 8) [BBC UK Bite size Revision](#)
- 9) [Desmos Unit of Simultaneous Equations](#)
- 10) [Eddie Woo, Desmos and Simultaneous Equations](#)

### FURTHER INFORMATION

