## Module A: Algebraic properties of linear maps

## Readiness Assurance Outcomes

Before beginning this module, each student should be able to...

- State the definition of a spanning set, and determine if a set of Euclidean vectors spans  $\mathbb{R}^n$  V4.
- State the definition of linear independence, and determine if a set of Euclidean vectors is linearly dependent or independent S1.
- State the definition of a basis, and determine if a set of Euclidean vectors is a basis S2,S3.
- Find a basis of the solution space to a homogeneous system of linear equations S6.