Module G: Geometry of Linear Maps

Readiness Assurance Outcomes

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

- Calculate the area of a parallelogram.
- Find the matrix corresponding to a linear transformation of Euclidean spaces A1.
- Recall and use the definition of a linear transformation A2.
- Find all roots of quadratic polynomials (including complex ones).
- Interpret the statement "A is an invertible matrix" in many equivalent ways in different contexts.

Readiness Assurance Resources

The following resources will help you prepare for this module.

- Finding the area of a parallelogram (Khan Academy): http://bit.ly/2B05iWx
- Factoring quadratics (Khan Academy): http://bit.ly/1XjfbV2
- Factoring quadratics using area models (Youtube): https://youtu.be/Aa-v1EK7DR4
- Finding complex roots of quadratics (Youtube): https://www.youtube.com/watch?v=2yBhDsNEOwg