

Worksheet: Constructing Möbius transformations

The problems below are Exercises 1 (a) and 1 (h), respectively, from section II.7.

1. Construct a Möbius transformation (fractional linear transformation) which maps these triples:

$$(1 + i, 2, 0) \mapsto (0, \infty, i - 1)$$

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2. Construct a Möbius transformation which maps these triples:

$$(1, i, -1) \mapsto (1, 0, -1)$$