1. Rationalise the denominators.

**a**  **b**  **c** 

**d**  **e**  **f** 

1. Rationalise the denominators and simplify if possible.

**a**  **b**  **c** 

**d**  **e**  **f** 

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Simplify . **b** Hence, rationalise the denominator and simplify .

1. Rationalise the denominators and simplify.

**a**  **b**  **c** 

Exam-style question

1. Rationalise the denominator of . Give your answer in the form  where *a* and *b* are integers. **(3 marks)**
2. ****Show that .