Rationalising the denominator and making the denominator real

Study Development Quickguide

1. Take the irrational part (or the imaginary part) of the denominator, and subtract the rational part (or real part). Call this value ‘a’.
2. Multiply the fraction by $\frac{a}{a}$.
3. Tidy up the numerator and denominator.
4. Simplify the fraction if you can.

**Support**: Study Development offers workshops, short courses, 1 to 1 and small group tutorials.

* Join a tutorial or workshop on the [Study Development tutorial and workshop webpage](https://www.yorksj.ac.uk/students/study-skills/study-development-tutorials/) or search ‘YSJ study development tutorials.’
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