Questions: Rationalizing the denominator

Maximilian Volmar

Summary

A selection of questions for the study guide on rationalizing the denominator.

*Before attempting these questions, it is highly recommended that you read* [*Guide: Rationalizing the denominator*](../studyguides/rationalizingthedenominator.qmd)*.*

## Q1

Rationalize the denominator for each of the following expressions. Provide your answers in their simplest form and with a positive denominator.

1.1.

1.2.

1.3.

1.4.

1.5.

1.6.

1.7.

1.8.

1.9.

1.10.

1.11.

1.12.

1.13.

1.14.

1.15.

1.16.

## Q2

Rationalize the denominator for each of the following expressions. Provide your answers in their simplest form and with a positive denominator.

2.1.

2.2.

2.3.

2.4.

2.5.

2.6.

2.7.

2.8.

2.9.

2.10.

2.11.

2.12.

2.13.

2.14.

## Q3

3.1. The denominator of the expression is not of the form , where and are integers and is an integer that is not a perfect square but you can still rationalize the denominator.

Prove that

3.2. Rationalize the denominator of this expression:

Provide your answer in its simplest form and with a positive denominator.

[After attempting the questions above, please click this link to find the answers.](../answers/as-rationalizingthedenominator.qmd)

## Version history and licensing

v1.0: initial version created 12/24 by Maximilian Volmar.

[This work is licensed under CC BY-NC-SA 4.0.](https://creativecommons.org/licenses/by-nc-sa/4.0/?ref=chooser-v1)