Powers and nth roots: Answers

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Answers to questions relating to the guide on powers and nth roots.

*These are the answers to [Questions: Powers and nth roots]* **Please attempt the questions before reading these answers!**

## Q1

Simplify the following expressions, leaving your answer as a singular power:

1.1.

1.2.

1.3.

1.4.

1.5.

1.6.

1.7.

1.8.

1.9.

1.10.

1.11.

## Q2

Evaluate the following:

2.1.

2.2.

2.3.

2.4.

2.5.

2.6.

## Q3

For the following, find the value of :

3.1. then and hence and so

3.2. hence, and so

3.3. , combining the first two fractions, and so

## Q4

Simplify the following expressions:

4.1.

4.2.

4.3.

4.4.

4.5.

4.6.

4.7.

4.8.

4.9.

4.10.

4.11.

4.12.

4.13.

4.14.

4.15.

## Q5

Simplify the following:

5.1.

5.2.

5.3.

5.4.

5.5.