Exponentials

Study Development Worksheet

## Example

Simplify:

## Answer

Simplify the left-hand side using index laws:

Divide both sides by

Then, use index laws again to simplify the left-hand side:

.

## Questions

1. Simplify:
2. Solve for
	1. = 4

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1. Differentiate:
	1. =

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## Answers

1. Using index laws:
2. = =
3. cannot be simplified any further
4. Using index laws and logarithms:
5. =

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1. Using the fact that :

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