Proof: properties of sigma notation

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An explanation as to why some of the properties of sigma notation are true.

*Before reading this proof sheet, it is recommended that you read* [*Guide: Introduction to sigma notation*](../studyguides/sigmanotation.qmd) *and [Guide: Proof by induction].*

# Proof of properties of sigma notation

## Distributivity

|  |
| --- |
| Distributivity |
| Hello |

|  |
| --- |
| Proof of distributivity |
| You can see this is true by writing the entire sum out, like this: |

## Combining and decomposing sums

|  |
| --- |
| Combining and decomposing sums |
| Hello |

|  |
| --- |
| Proof of combining and decomposing sums |
| Similar to the distributive property, you can show this is true by writing the entire sum out:  In a similar way, you can show that is also true. |

# Further reading

[Guide: Using the quadratic formula](../studyguides/quadraticformula.qmd)

[Questions: Using the quadratic formula](../questions/qs-quadraticformula.qmd)

## Version history

v1.0: created in 04/24 by tdhc.