

[13-11-25-T11] Basic identities

This will be our project in class for the next couple of days. Work on it together in class today.

For homework, rewrite each proof clearly. Try to understand why each statement in the proof is true. Ask yourself “How would I think of doing this proof at some future date.”

Numbers in brackets, e.g. [11], refer to the sheet of identities called [09-03-25-T11 REV 4].

A. Using any of the identities [1] to [11] and any of [12] to [15] prove [16] and [17].

B. Using any of the identities [1] to [17] prove the “Double angle formulae” [18] to [22].

C. Using any of the identities [1] to [22] prove the “Half angle formulae” [23] to [25].

D. Using any of the identities [1] to [25] prove the “Product angle formulae” [26] to [28].