

A rhombus is a parallelogram with its adjacent sides equal.

Rule-2



III- Parallelogram whose one of its diagonals is a bisector:

8th Grade, Sec. B & C

[©] <u>How to prove a quadrilateral is a rhombus</u>?

- *i- Starting from the definition:* A quadrilateral with four equal sides is a rhombus.
- *ii-* <u>Starting from diagonals</u>: A quadrilateral in which diagonals are perpendicular and bisect each other is a rhombus.
- *iii-<u>Starting from axes of symmetry</u>:* A quadrilateral whose diagonals are axes of symmetry is a rhombus.

[©] <u>How to prove a parallelogram is a rhombus</u>?

- i- Starting from sides: A parallelogram with two equal consecutive sides is a rhombus.
- *ii-* <u>Starting from diagonals</u>: A parallelogram with perpendicular diagonals is a rhombus.
- *iii-<u>Starting from diagonals</u>*: A parallelogram with one diagonal is a bisector of its one angles is a rhombus.



Mathematics A.S-4. Rhombus