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The quaternions  $i, j, k$ , and  $1$  form a non-Abelian Group of order eight (with multiplication as the group operation) known as  $Q_8$ . The quaternions can be written in the form (19)

## **Quaternion**

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Geometry of 4D rotations. Four-dimensional rotations are of two types: simple rotations and double rotations. Simple rotations. A simple rotation  $R$  about a rotation centre  $O$  leaves an entire plane  $A$  through  $O$  (axis-plane) fixed. Every plane  $B$  that is completely orthogonal to  $A$  intersects  $A$  in a certain point  $P$ . Each such point  $P$  is the centre of the 2D rotation induced by  $R$  in  $B$ .

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