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| --- | --- | --- |
| **Terms** | Atamalar | **Izoh** |
| Quaternion | kvaternion | $q=ae+bi+cj+dk $ko’rinishidagi tenglamalar kvaternionlar deyiladi. Bunda $     a,b,c,dϵR$, $e=1,       i^{2}=j^{2}=k^{2}=-1$ |
| Joint quaternion | qo’shma kvaternion  | $\overbar{q}=a-bi-cj-dk $ ga $q $kvaternionga qo’shma kvaternion deyiladi. |
| The norm of quaternion | kvaternion normasi | $N(q)$= $q$ $\overbar{q}=a^{2}+b^{2}$+$c^{2}+d^{2}$ ga kvaternion normasi deyiladi |

GLOSSARIY

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| **GLOSSARIY** |
| A set | to’plаm  |
| An element  | Element |
| An operation  | Amal (operatsiya)  |
| To contain  | O’z ichiga olmoq  |
| A subset  | Qism to’plаm  |
| Union  | birlashma |
| Difference  | Ayirma  |
| Axiom  | Aksioma  |
| Intersection  | Kesishma  |
| To belong  | Tеgishli bo’lmoq  |
| Any  | Ixtiyoriy  |
| For example  | Masalan  |
| Notion  | Tushuncha  |
| Definition  | Ta’rif  |
| Property  | Xossa  |
| To denote  | Belgilamoq  |
| The same  | Bir xil  |
| To write  | Yozmoq  |
| Sign  | Belgi  |
| The sets theory  | to’plаmlar nazariyasi  |