



### B.Sc. (H) PHYSICS - University of Delhi

A vector space (also called a linear space) is a collection of objects called vectors, which may be added together and multiplied ("scaled") by numbers, called scalars. Scalars are often taken to be real numbers, but there are also vector spaces with scalar multiplication by complex numbers, rational numbers, or generally any field. The operations of vector addition and scalar multiplication ...

#### Vector space - Wikipedia

$f: \mathbb{C} \rightarrow \mathbb{C}$ ,  $z \mapsto z^2$  (function of a complex variable)  $\frac{1}{2}$   $\frac{1}{4}$   $\frac{1}{8}$   $\frac{1}{16}$   $\frac{1}{32}$   $\frac{1}{64}$   $\frac{1}{128}$   $\frac{1}{256}$   $\frac{1}{512}$   $\frac{1}{1024}$   $\frac{1}{2048}$   $\frac{1}{4096}$   $\frac{1}{8192}$   $\frac{1}{16384}$   $\frac{1}{32768}$   $\frac{1}{65536}$   $\frac{1}{131072}$   $\frac{1}{262144}$   $\frac{1}{524288}$   $\frac{1}{1048576}$   $\frac{1}{2097152}$   $\frac{1}{4194304}$   $\frac{1}{8388608}$   $\frac{1}{16777216}$   $\frac{1}{33554432}$   $\frac{1}{67108864}$   $\frac{1}{134217728}$   $\frac{1}{268435456}$   $\frac{1}{536870912}$   $\frac{1}{1073741824}$   $\frac{1}{2147483648}$   $\frac{1}{4294967296}$   $\frac{1}{8589934592}$   $\frac{1}{17179869184}$   $\frac{1}{34359738368}$   $\frac{1}{68719476736}$   $\frac{1}{137438953472}$   $\frac{1}{274877906944}$   $\frac{1}{549755813888}$   $\frac{1}{1099511627776}$   $\frac{1}{2199023255552}$   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