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**Scalar and**

**Vector**

**quantities IN**

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[dX] X Y = 2X + 5

[dY] +1 3 11 +2

0 2 9 0 -1 1 7

-2 Table 3.1

Effect of a

Linear Transform  
on Deviation

Scores Theorem

3.2 (Effect of a

LT on the

Variance and SD)

Suppose a vari-  
able X is

transformed into

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Y via the linear  
transform  $Y = aX$   
 $+b$ . Then, for

## **The Scalar Algebra of Means, Covariances, and Correlations**

A scalar is an  
element of a  
field which is  
used to define a  
vector space. A

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Scalar Algebra

quantities described by  
multiple

scalars, such as

having both

direction and  
magnitude, is

called a vector.

In linear

algebra, real

numbers or other

elements of a

field are called

scalars and



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relate to Algebra  
vectors in a  
vector space  
through the  
operation of  
scalar  
multiplication,  
in which a  
vector can be  
multiplied by a  
number to  
produce another  
vector. More  
generally, a

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vector space may  
be defined by  
using any field  
instead of

And

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A scalar is an  
element of a  
field which is  
used to define a  
vector space. A  
quantity  
described by  
multiple

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Scalars, such as  
having both  
direction and  
magnitude, is  
called a vector.

Correlations

**The Scalar**

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A scalar field  
is a function  
which assigns to  
every point of

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space a scalar

value— either a

real number or a

physical

quantity. Scalar

fields are

important in

physics and are

sometimes used

with vector

fields. A scalar

field is similar

to a magnetic

(or

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electromagnetic  
field, except a  
scalar field has  
no direction.

And

**Scalar Function,  
Definition of**

**Scalar -**

**Calculus How To**

Scalar and

Vector Algebra.

Scalars: Scalars  
are mathematical  
entities which

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have only a  
magnitude (and  
no direction).  
Physical  
examples include  
mass and energy.  
. Vectors:  
Vectors are  
mathematical  
entities which  
have both a  
magnitude and a  
direction. Note  
that the



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location of the vector (for example, on which point a specific vector force is acting, or where a car with a given vector velocity is located) is not part of the vector itself.

**Scalar and**

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**Vector Algebra |**

**ScienceBits**

Scalar, a  
physical

quantity that is  
completely  
described by its  
magnitude;

examples of  
scalars are  
volume, density,  
speed, energy,  
mass, and time.

Other

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quantities, such as force and velocity, have both magnitude and direction and are called vectors. Scalars are described by real numbers that are usually but not necessarily positive.

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Scalar product.  
Definition 8.16.  
Let  $\mathbf{a}$  and  $\mathbf{b}$  be any  
two non-zero  
vectors and  $\theta$  be  
the included  
angle of the  
vectors as in  
Fig. 8.34. Their  
scalar product

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Scalar Algebra

or dot product

is denoted by

and is defined

as a scalar  $| \cdot |$ .

$| \cdot | \cos \theta$ .

Thus  $| \cdot | = | \cdot | \cos \theta$ .

Since the

resultant of  $\cdot$

is a scalar, it

is called scalar

product. Further

we use the

symbol dot ( $\cdot$ )

and hence

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another name dot  
product.

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Product

A common special  
case of the  
inner product,  
the scalar  
product or dot  
product, is  
written with a

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centered dot  $a \cdot b$   $\{\displaystyle a \cdot b\}$ . Some authors,

especially in physics and matrix algebra, prefer to define the inner product and the sesquilinear form with linearity in the second argument

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rather than the  
first.

Inner product  
space -

**Wikipedia**

The term  
"scalar" is used  
to mean some  
element of a  
field, usually  
clear from  
context. Here,  
the field is



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clearly  $C$ , and hence  $c$  must not be real, so the statement is false since  $c$  can be complex. For example,  $c = i$  and  $A = \begin{pmatrix} 1 & 1 & 0 \\ 1 & & \end{pmatrix}$  provides a counter-example (verify that this is indeed a counter-example). If  $c$

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is real, the statement is true.

**linear algebra -  
The conjugate of  
a scalar is the  
same ...**

Vector algebra is one of the essential topics of algebra. It studies the algebra of

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vector Algebra  
quantities. As  
we know, there  
are two types of  
physical  
quantities,  
scalars and  
vectors. The  
scalar quantity  
has only  
magnitude,  
whereas the  
vector quantity  
has both

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magnitude and  
direction. Learn  
about Magnitude  
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Noun. 1. scalar  
matrix - a  
diagonal matrix  
in which all of

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the diagonal elements are equal. diagonal matrix - a square matrix with all elements not on the main diagonal equal to zero.

identity matrix, unit matrix - a scalar matrix in which all of the

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Thus, an algebra  
is an algebraic  
structure  
consisting of a  
set together  
with operations

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multiplication  
and addition and  
scalar  
multiplication  
by elements of a  
field and  
satisfying the  
axioms implied  
by "vector  
space" and  
"bilinear".

**Algebra over a**

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The scalar product between two vectors

$\vec{u}$  and  $\vec{v}$ ,

that is

represented by  $\vec{u} \cdot \vec{v}$ , is a

real number that is obtained by multiplying the



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$\|\vec{u}\|$  by

the magnitude of

$\|\vec{v}\|$  and

by the cosine of

the angle that

is formed by

$\|\vec{u}\|$  and

$\|\vec{v}\|$ .  $\|\vec{u}\| \|\vec{v}\|$

$\vec{u} \cdot \vec{v} =$

$\|\vec{u}\| \|\vec{v}\| \cos(\widehat{uv})$

$\|\vec{u}\| \|\vec{v}\| \cos(\widehat{uv})$

$\|\vec{u}\| \|\vec{v}\| \cos(\widehat{uv})$

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Definition, analytical  
expression and  
properties of  
scalar ...

Scalar: A scalar  
is a number ...

The Operations  
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definition of a

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...

A scalar is a

quantity that

can be

represented by a

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For our purposes, scalars will always be real numbers. The term scalar was invented by 19th century Irish mathematician, physicist and astronomer William Rowan Hamilton, to

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convey the sense  
of something  
that could be  
represented by a  
point on a scale  
or graduated  
ruler.

**1.2: Vector**

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Many quantities  
in physics such

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Scalar Algebra,

as force, speed,

acceleration,

displacement,

and shift are

vectors that can

be expressed as

directional line

segments. The

algebraic view,

examines the

properties of

algebra from a

vector space,

that is, the

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properties of  
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and scalar  
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multiplication.

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Scalar  
Multiplication  
Scalar

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refers to the multiplication of a vector by a constant,

producing a vector in the same (for) or opposite (for) direction but of different

length. Scalar multiplication is indicated in



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the Wolfram  
Language by  
placing a scalar  
next to a vector  
(with or without  
an optional  
asterisk),  $s a_1,$   
 $a_2, \dots, a_n.$

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