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Coefficient in math definition

The **coefficient** of an expression is the number multiplied by the powers of one or more variables or variables in the expression. More about coefficient coefficients can be positive or negative or zero. While adding or dragging polynomials, simply add or subtract the coefficients in similar expressions. Video Examples: Mathematics Tutorial: Pearson's correlation coefficient 5x - 3: Here 5 is the coefficient of the linear term 5x. 3xy² - 7z: Here 3 and - 7 are the coefficients for the first and second terms respectively. Choice: A. 1 B. - 1 C. 2 D. - 5 Correct answer: D Solution: Step 1: The coefficient p of the expression p³ + 2p² - 5p - 1 is -5. Multiplier in a mathematical expression For other applications, see **Coefficient** (disquiguation). This article has several problems. Help improve it or discuss these issues on the speech page. (Learn how and when to remove these template messages) The lead of this article may be too long for the length of the article. Please help by moving some material from it into the body of the article. Read the layout instructions and guidelines for the section to ensure that the section will still be inclusive in all important details. Please discuss this topic on the article's speech page. (November 2020) This article must have additional quotes for confirmation. Help improve this article by adding citations to trusted sources. Material that does not have sourced material may be challenged and removed. Find sources: Coefficient - news - newspapers - books - scholar - JSTOR (May 2017) (Learn how and when to remove this template message) (Learn how and when to remove this template message) In math, a **coefficient** is a multiplier in some expression of a polynomial, a series, or any expression; It is usually a number, but can be any expression (including variables such as a, b, and c). [1] [2] [3] In the latter case, the variables listed in the coefficients are often referred to as parameters and must be clearly separated from the other variables. In 7 × 2 − 3 × y + 1.5 + y,

7

x

(

2

−
3
y
+
1.5
)

y

{\displaystyle 7x^{2}-3xy+1.5+y}

 the first two expressions have the coefficients of 7 and −3, respectively. Third term 1.5 is a constant coefficient. The final expression does not have an explicitly written coefficient factor that does not change the expression, the coefficient is thus considered as 1 (since variables without numbers have a coefficient of 1). [2] In many scenarios, coefficients are numbers (as is the case for each expression in the example above), although they could be parameters of the problem – or any expression in these parameters. In this case, a clear distinction must be made between symbols representing variables and symbols representing parameters. After René Descartes, the variables are often indicated by x, y, of a, b, c, ..., but this is not always the case. For example, if y is considered a parameter in the above expression, the coefficient x will be −3y and the constant coefficient (always with respect to x) will be 1.5 + y. When typing an

x

2

+
b
x
+
c

{\displaystyle ax^{2}+bx+c}

, it is generally assumed that x is the only variable and that a, b and c are parameters; thus the constant coefficient c in this case. Similarly, all polynomials in one variable x can be written as a

x

k

+
⋯
+
a

1

x

1

+
a

0

{\displaystyle a_{k}x^{k}+\dotsb +a_{1}x^{1}+a_{0}}

 for a positive integer

k

{\displaystyle k}

 where

a

k

,
…
,

a

1

,

a

0

{\displaystyle a_{k},\dots ,a_{1},a_{0}}

 are coefficients; In order to allow this kind of expression in all cases, it is appropriate to allow the introduction of 0-as-a-coefficient terms. For the largest in

i

{\displaystyle i}

 with

a

i

≠
0

{\displaystyle a_{i}\neq 0}

 (if any),

a

i

{\displaystyle a_{i}}

 is called the leading polynomial coefficient. For example, the leading coefficient for polynomial

4

x

5

+

x

3

+
2
+
2

{\displaystyle \,4x^{5}+x^{3}+2x^{2}}

 is 20%. Some specific coefficients that occur frequently in mathematics have dedicated names. For example, the binomial coefficients occur in the 1980s. Linear algebra In linear algebra is a system of linear equations associated with a coefficient matrix used in Cramer's rule to find a solution to the system. The front entry (sometimes leading coefficient) for a row in an array is the first non-zero entry in that row. So, for example, given matrix described as follows:

(

1

2

0

6

0

2

9

4

0

0

4

0

0

0

)

,

{\displaystyle {\begin{pmatrix}1&2&0&6\\0&2&9&4\\0&0&0&4\\0&0&0&0\end{pmatrix}}}

, the leading coefficient for the first row is 1; the second row is 2 the third row is 4, while the last row does not have a leading coefficient. Although coefficients are often considered constants in elementary algebra, they can also be seen as variables as the context expands. For example, if you're a 100-year coordinates

(

x

1

,

x

2

,
…
,

x

n

)

{\displaystyle (x_{1},x_{2},\dots ,x_{n})}

 of a vector

v

{\displaystyle v}

 in a base

{

e

1

,

e

2

,
…
,

e

n

}

{\displaystyle {\brace e_{1},e_{2},\dots ,e_{n}}rbrace }

 are the coefficients of the base vectors in expression

v
=

x

1

e

1

+

x

2

e

2

+
⋯
+

x

n

e

n

.

{\displaystyle v=x_{1}e_{1}+x_{2}e_{2}+\dots +x_{n}e_{n}.}

 See also the correlation coefficient degree of a polynomial monic polynomial references ^ Compendium of mathematical symbols. Mathematics Vault. 2020-03-01. Retrieved 2020-08-15. ^ 1.0 1.1 Definition of Coefficient. www.mathsisfun.com. Retrieved 2020-08-15. ^ Weisstein, Eric W. Coefficient. mathworld.wolfram.com. Retrieved 2020-08-15. Additional reading Sabah Al-hadad and C.H. Scott (1979) College Algebra Ansønginger, side 42, Winthrop Publishers, Cambridge Massachusetts ISBN 0-87626-140-3 . Gordon Fuller, Walter L Wilson, Henry C Miller, (1982) College Algebra, 5. Steven Schwartzman (1994) Matematikkens ord: en etymologisk ordbog over matematiske udtryk, der anvendes på engelsk, side 48, Matematik Association of America, ISBN 0-88385-511-9. Hentet fra

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