

Meaning of **integral** in English

integral

adjective

UK /'ɪn.tɪ.ɡrəl/ US /'ɪn.tə.ɡrəl/

Add to word list

C1**necessary and important as a part of a whole:**

- **integral part** *He's an integral part of the team and we can't do without him.*
- **integral to** *Bars and terrace cafés are integral to the social life of the city.*

+

UK

contained within something; not separate:

- *All rooms have a flat-screen TV with integral DVD-player.*
- *The integral garage had been converted to make another bedroom.*

+ SMART Vocabulary: related words and phrases

Want to build your confidence when speaking English?

Sparkle is a new app from Cambridge that connects you with learners around the world to play speaking games in real time. Try it now!



integral

noun [C]

UK /'ɪn.tɪ.ɡrəl/ US /'ɪn.tə.ɡrəl/

+

MATHEMATICS • specialized

a number or function that gives the area under a curve on a graph between two points:

- *The process of finding integrals is called integration.*
- *We know that the derivative of x^2 is $2x$, so an integral of $2x$ is x^2 .*

Related words[integrate](#)

derivative

+ More examples

+ SMART Vocabulary: related words and phrases

(Definition of **integral** from the Cambridge Advanced Learner's Dictionary & Thesaurus © Cambridge University Press)

integral | AMERICAN DICTIONARY

Contents

To top 

adjective

US  /'ɪn·tə·grəl, ɪn'teg·rəl/

Add to word list 

necessary and important as a part of a whole, or contained within it:

- *Taking a ride on the canals of Venice is an integral part of experiencing that city.*

(Definition of **integral** from the Cambridge Academic Content Dictionary © Cambridge University Press)

integral | BUSINESS ENGLISH

integral

adjective

UK  /'ɪntɪgrəl/ US 

Add to word list 

necessary and important as a part of something:

- *He's an **integral part** of the team and we can't do without him.*
- **integral to sth** *The reliability of our suppliers has been integral to the company's success.*

(Definition of **integral** from the Cambridge Business English Dictionary © Cambridge University Press)

EXAMPLES of **integral**

integral

Indeed, since the particle radius is small, the related contribution of the correlation function to all relevant integrals should be negligible.

From the Cambridge English Corpus



The system has the following integrals of motion.

From the Cambridge English Corpus



In this case we find exact solutions in terms of elliptic integrals of the first kind.

From the Cambridge English Corpus



There must be two linearly independent particular integrals, because the differential equation (46) is of order two.

Results are expressed in terms of integrals involving eigenfunctions and trapped beamlet field structures, although explicit expressions for these cannot be given.

From the [Cambridge English Corpus](#)



Taking this approximation into account, we can easily calculate the integrals in (16).

From the [Cambridge English Corpus](#)



The equations of motion admit the six known integrals.

From the [Cambridge English Corpus](#)



The sound radiation associated with the instability wave can be found by evaluating the integrals of equation (3.20).

From the [Cambridge English Corpus](#)



The power integrals are obtained by respectively multiplying by y_s and v_i .

From the [Cambridge English Corpus](#)



One might expect that a definition based on certain integrals of the temperature profile would better describe the stability of such complex systems.

From the [Cambridge English Corpus](#)



2 (because of the strong weighting factors e_q and e_{2q} in the integrals).

From the [Cambridge English Corpus](#)



However, such manipulation serves little purpose, since values for α are obtained easily enough by direct numerical evaluation of the integrals.

From the [Cambridge English Corpus](#)



The surface and volume integrals are computed in a manner analogous to those for the six-sided elements.

From the [Cambridge English Corpus](#)



The integrals which do not involve the basic state can be evaluated exactly.

From the [Cambridge English Corpus](#)



Evaluation of the integrals for the cylindrical and spherical cases would yield profiles similar to the ones shown in figures 4-9.

From the [Cambridge English Corpus](#)



See all examples of integral

These examples are from corpora and from sources on the web. Any opinions in the examples do not represent the opinion of the Cambridge Dictionary editors or of Cambridge University Press or its licensors.

What is the pronunciation of *integral*?



Translations of *integral*

in Chinese (Traditional)

構成整體所必需的, 內置的...

See more

in Chinese (Simplified)





in Spanish

integral, incorporado, esencial [masculine-feminine...

See more

in Portuguese

intrínseco, integrante, integrado...

See more

in more languages

▼

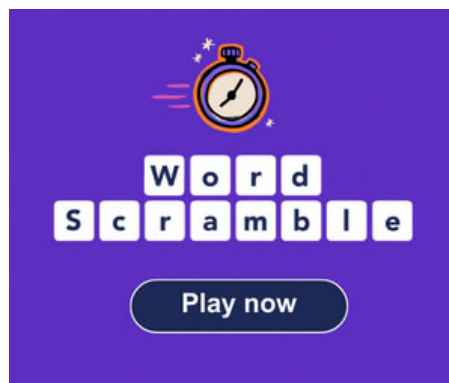
Need a translator?

Get a quick, free translation!

 **Translator tool**

Browse

intangibly
intarsia
integer
integrable
integral
integral transform BETA
integrally
integrate
integrated





More meanings of *integral*

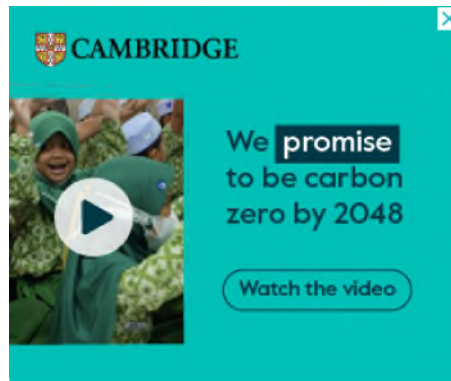
— All

[definite integral](#)

[indefinite integral](#)

[integral transform](#)

[See all meanings](#)



WORD OF THE DAY

run errands

to go out to buy or do something

About this



BLOG

Everything's getting on top of me: talking about stress

February 07, 2024

[Read More](#)



NEW WORDS

coolcation

February 12, 2024

[More new words](#)[LEARN](#)[DEVELOP](#)[ABOUT](#)

© Cambridge University Press & Assessment 2024