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- I am here to help please ask questions!
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- Make an appointment with the librarian to help you with research, citations, writing, book selection, etc. <u>OR</u> just stop in!
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Math in the Library

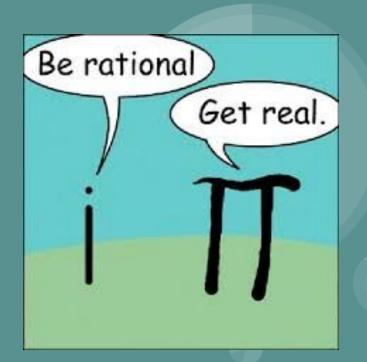
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Overview:

- Tutor.com (Bryant Library Database*)
- Explora (Bryant Library Database -2149000000001)
- Khan Academy (Free website)
- Phet (Free website)
- Virtual Nerd (Free website)

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We can all use some math help occasionally.



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Virtual Library Open - 24/7

Staff:

Christine Parente Library Media Specialist

> Kim Norberg Library Assistant

Phone: (516)801-5146

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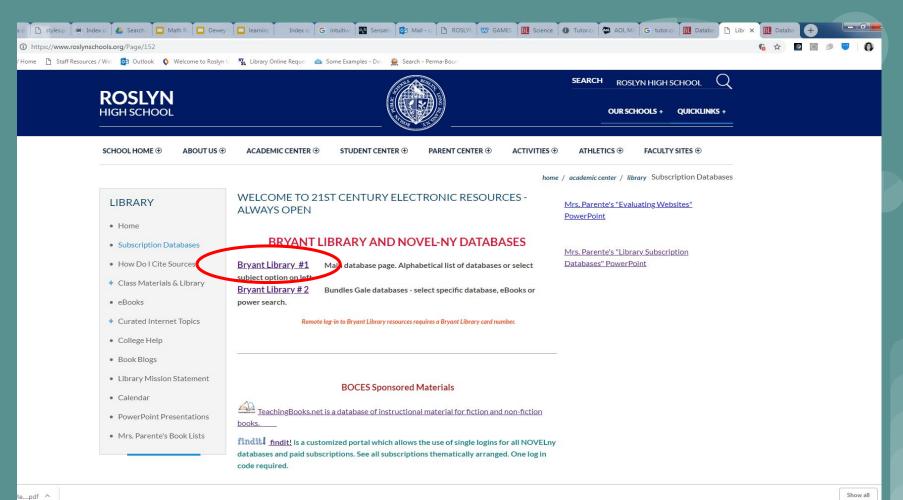
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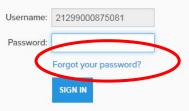




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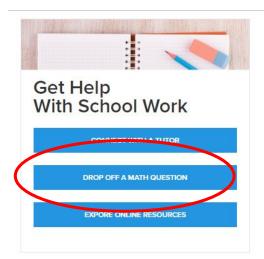


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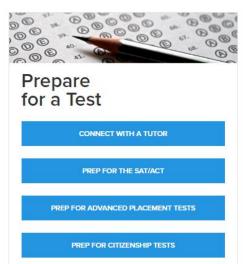
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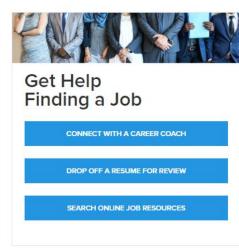
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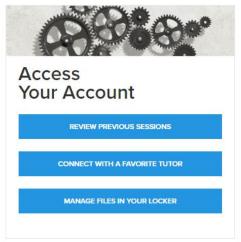














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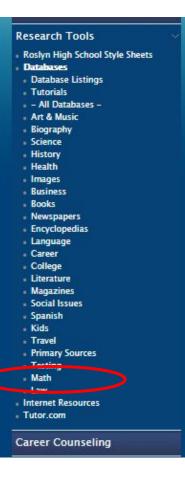
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Carotid arteries

Chlorine

3. Absolute.







Funk & Wagnalls New World Encyclopedia. 2017. 1p.

Absolute, term used to denote whatever is in no way dependent on or limited by anything else. Thus, in ethics an absolute value is one that is good in itself rather than useful for obtaining some...



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4. Miller, Merton Howard.







Funk & Wagnalls New World Encyclopedia. 2017. 1p.

Miller, Merton Howard (1923-2000), American financial economist and Nobel laureate. Born on May 16, 1923, in Boston, Mass., he was educated at Harvard and Johns Hopkins universities.



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Geometric Progression.







Funk & Wagnalls New World Encyclopedia. 2017. 1p.

Geometric Progression, in mathematics, sequence of numbers in which the ratio of any term, after the first, to the preceding term is a fixed number, called the common ratio. For example, the sequ...



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6. Calculus.



THE RESERVE





Funk & Wagnalls New World Encyclopedia. 2017. 1p.

Calculus, also the calculus, branch of mathematics concerned with the study of such concepts as the rate of change of one variable quantity with respect to another, the slope of a curve at a pres...

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Geometric Progression



Geometric Progression, in mathematics, sequence of numbers in which the ratio of any term, after the first, to the preceding term is a fixed number, called the common ratio. For example, the sequence of numbers 2, 4, 8, 16, 32, 64, 128 is a geometric progression in which the common ratio is 2, and 1, 1/3, 1/9,1/27,1/81,1/243, ... 1/3i, ... is a geometric progression in which the common ratio is 1/3. The first is a finite geometric progression with seven terms; the second is an infinite geometric progression. In general, a geometric progression may be described by denoting the first term in the progression by a, the common ratio by r, and, in a finite progression, the number of terms by n. A finite geometric progression may then be written formally as a, ar, ar2, ar3, ar4, ..., arn-1 and an infinite geometric progression as a, ar, ar2, ..., ari, ...

In general, if the nth term of a geometric progression is denoted by an, it follows from the definition that an = arn-1

If the symbol Sn denotes the sum of the first n terms of a geometric progression, it can be proved that

$$S_n = \frac{a(1-r^n)}{1-r}$$

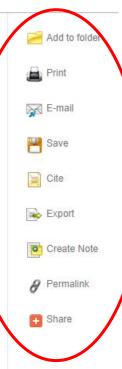
The terms in a geometric progression between ai, and aj, i < j, are called geometric means. The geometric mean between two positive numbers x and y is the same as the mean proportional \sqrt{xy} between the two numbers. In particular, an is the geometric mean or mean proportional between an-1 and an+1.

The formal sum of the terms of an infinite geometric progression, written as a1 + a2 + a3 + a4 + a5 + ... + an-1 + an... is called a geometric series (see sequence and series,). In analysis it can be proved that a geometric series converges if the absolute value of the common ratio is less than 1; otherwise, the series diverges. If the series does converge, the limit, S, can be shown to be

$$S = \lim_{n \to \infty} S_n = \frac{a}{1 - r}$$

The symbol [dcl073] Sn is read "the limit of Sn as n increases without bound."

Geometric series and geometric progressions have many applications in the physical, biological, and social sciences, as well as in investments and banking. Many problems in compound interest and annuities are easily solved using these concepts. See also arithmetic progression,.



www.khanacademy.org/math



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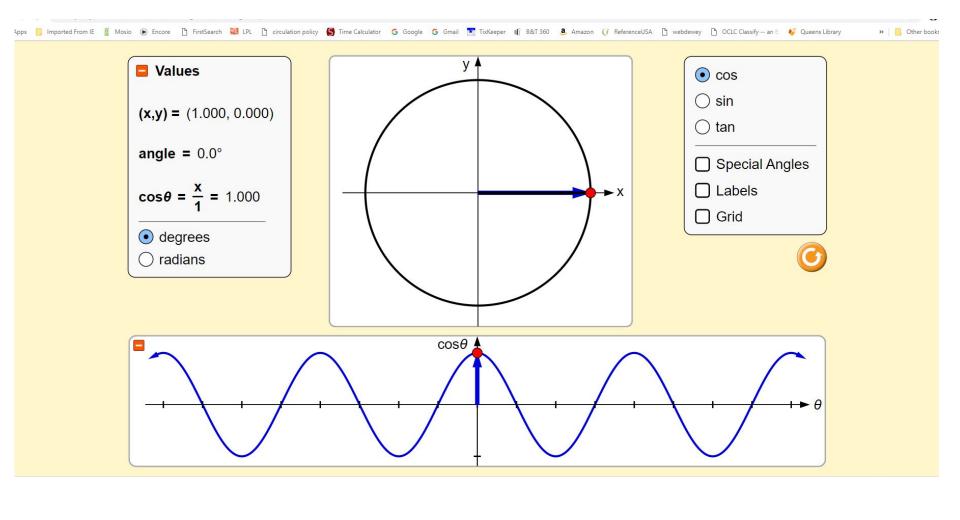








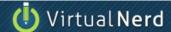




http://www.virtualnerd.com/



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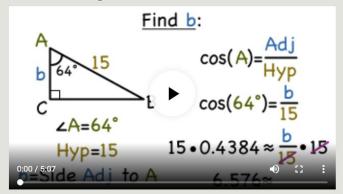
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how do you find a missing side of a right triangle using cosine?



Note:

The cosine ratio is not only used to identify a ratio between two sides of a right triangle, but it can also be used to find a missing side length. This tutorial shows you how to use the cosine ratio to find that missing measurement!

Keywords:



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