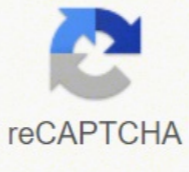




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Graphing trigonometric functions khan academy

What does $f(x)$ mean? Think of the function notation as a replacement for y . It reads "f of x." $f(x) = 2x + 1$ is also known as $y = 2x + 1$. $f(x) = |x + 5|$ is also known as $y = |x + 5|$. $f(x) = 5x^2 + 3x - 10$ is also known as $y = 5x^2 + 3x - 10$. What do these variations of notation share? $f(t) = -2t^2$, $f(b) = 3eb$, $f(p) = 10p + 12$. Whether the function begins with $f(x)$ or $f(t)$ or $f(b)$ or $f(p)$ or $f(\bullet)$, it means that the outcome of f depends on what's in the parentheses. $f(x) = 2x + 1$ (The value of $f(x)$ depends on the value of x .) $f(b) = 3eb$ (The value of $f(b)$ depends on the value of b .) Learn how to use a graph to find specific values of f . What is $f(2)$? In other words, when $x = 2$, what is $f(x)$? Trace the line with your finger until you get to the part of the line where $x = 2$. What is the value of $f(x)$? Answer: 11 What is $f(-3)$? In other words, when $x = -3$, what is $f(x)$? Trace the graph of the absolute value function with your finger until you're touching the point where $x = -3$. What is the value of $f(x)$? Answer: 15 What is $f(-6)$? In other words, when $x = -6$, what is $f(x)$? Trace the parabola with your finger until you touch the point at which $x = -6$. What is the value of $f(x)$? Answer: -18 What is $f(1)$? In other words, when $x = 1$, what is $f(x)$? Trace the exponential growth function with your finger until you touch the point at which $x = 1$. What is the value of $f(x)$? Answer: 3 What is $f(90^\circ)$? In other words, when $x = 90^\circ$, what is $f(x)$? Trace the sine function with your finger until you touch the point at which $x = 90^\circ$. What is the value of $f(x)$? Answer: 1 What is $f(180^\circ)$? In other words, when $x = 180^\circ$, what is $f(x)$? Trace the cosine function with your finger until you touch the point at which $x = 180^\circ$. What is the value of $f(x)$? Answer: -1 If you're seeing this message, it means we're having trouble loading external resources on our website. If you're behind a web filter, please make sure that the domains *.kastatic.org and *.kasandbox.org are unblocked. Khan was the name given to male rulers of the Mongols, Tartars, or Turkic/Altaic peoples of Central Asia, with female rulers called khatun or khanum. Though the term seems to have originated with the Turkic peoples of the high inner steppes, it spread to Pakistan, India, Afghanistan and Persia through the expansion of the Mongols and other tribes. Many of the great Silk Road oasis towns were ruled by khans during their heyday, but so were great city-states of the Mongol and Turkic empires of their age, and the rise and fall of khans subsequently have greatly shaped the history of Central, Southeast and Eastern Asia — from the brief and violent Mongol khans to the modern rulers of Turkey. The first known use of the word "khan," meaning ruler, came in the form of the word "khagan," used by the Rourans to describe their emperors in 4th to 6th century China. The Ashina, consequently, brought this usage across Asia throughout their nomadic conquests. By the middle of the sixth century, Iranians had written reference to a certain ruler called "Kagan," the king of the Turks. The title spread to Bulgaria in Europe around the same time where kans ruled from the 7th to 9th centuries. However, it wasn't until the great Mongol leader Genghis Khan formed the Mongol Empire — a vast khanate spanning much of South Asia from 1206 to 1368 — that the term was made popular to define rulers of vast empires. The Mongol Empire went on to be the largest land mass controlled by a single empire, and Ghengis called himself and all his successors the Khagan, meaning "Khan of Khans." This term carried over to different spellings, including the name Ming Chinese emperors gave their minor rulers and great warriors, "Xan." The Jurchens, who later founded the Qing dynasty, also used the term to denote their rulers. In Central Asia, the Kazakhs were ruled by khans from its founding in 1465 through its breaking into three khanates in 1718, and along with modern-day Uzbekistan, these khanates fell to Russian invasion during the Great Game and its subsequent wars in 1847. Still today, the word khan is used to describe military and political leaders in the Middle East, South and Central Asia, Eastern Europe and Turkey, especially in Muslim-dominated countries. Among them, Armenia has a modern form of khanate along with its neighboring countries. However, in all of these cases, the countries of origin are the only people who might refer to their rulers as khans — the rest of the world giving them westernized titles like emperor, tsar or king. Interestingly, the main villain in the hit franchise series of films, comics books "Star Trek," Khan is one of the main super-soldier villain and arch-nemesis of Captain Kirk. If you're seeing this message, it means we're having trouble loading external resources on our website. If you're behind a web filter, please make sure that the domains *.kastatic.org and *.kasandbox.org are unblocked. CCO/geralt/Pixabay The pace of science and technology change in our lives has made the STEM (Science, Technology, Engineering, and Math) fields more important than ever before. Students now get exposed to technology and technological concepts at a young age. Being able to leverage the new tools that work with sophisticated algorithms requires a certain level of numerical literacy for all users. Mathematical education, thus, has emerged as a crucial area of study. Not only is it a prerequisite for many fields of academic study, but it's required for certain jobs as well. In the professional world, improved math skills can open new doors. While many apps have sought to address the challenge of math education, few have succeeded as widely as Khan Academy. Learning Math on Khan Academy Khan Academy is an online learning platform founded by Salman Khan. In 2004, while working at a hedge fund, Khan began remotely tutoring a cousin of his who was struggling with mathematics. As the months progressed, Khan found himself tutoring more students, and he started making videos and placing them on Youtube. Since that time, Khan Academy has evolved into a leading e-learning platform, with a strong focus on elementary education. Khan Academy has courses on a wide range of subjects, including math, engineering, chemistry, and computer programming. Practicing Math for Lower Grades Mathematics lessons on Khan Academy begin at the kindergarten level. Early math topics include counting, basic addition, subtraction, and basic geometry. Kids aged 5 and under can use a special app from Khan Academy called Khan Academy Kids. This app uses fun and playful characters to introduce them to basic math concepts. Kids in early grades up to the high school level can use the regular Khan Academy application to master the full curriculum of elementary mathematics. This includes topics like Geometry, Pre-Algebra, and Pre-Calculus. Learning High School Math on Khan Academy Khan Academy's suite of high school classes covers: Mathematics I-III - From linear equations all the way to probability distributions Algebra I and II High school statistics Geometry Trigonometry Pre-Calculus Thanks to Khan Academy's set of classes for high school students, mastering high school math is easier. If you are in high school, you can use Khan Academy's lessons to learn topics as your teacher covers them in class. You can also use the exercises for extra practice so that your math skills can improve. Using Khan Academy to Study for Standardized Tests If you are due to take the SAT, AP Calculus or some other test, Khan Academy makes for a great source of practice material. Khan Academy's test prep covers virtually all the topics in the standardized test, and includes numerous questions that build up your problem-solving skills. You can use test prep materials for the following tests: SAT AP Calculus AB AP Calculus BC AP Statistics GMAT LSAT MCAT In this way, not only are you likely to improve your performance in standardized testing, but this type of test prep is cheaper than common alternatives. Hiring a GMAT math tutor, for example, can cost around \$90/hr, whereas using Khan Academy to prepare for the test is free. How to Use Khan Academy for Group Study Learning on your own is good, but you can increase the level of challenge by working with others from your class or friends. There are multiple ways you can use Khan Academy as part of your group study. For example, you can all follow along the lessons and work problems together in group study sessions. Alternatively, you can challenge each other to work through the problems in a course and complete sections the fastest. You may also set challenges for accuracy, so that the student with the highest marks in a section gets to win that section. MORE FROM LIFE123.COM

