

5 X 1

Natural logarithm

including: $\ln(1+x) = x - \frac{x^2}{2} + \frac{x^3}{3} - \frac{x^4}{4} + \frac{x^5}{5} - \frac{x^6}{6} + \frac{x^7}{7} - \frac{x^8}{8} + \frac{x^9}{9} - \frac{x^{10}}{10} + \frac{x^{11}}{11} - \frac{x^{12}}{12} + \frac{x^{13}}{13} - \frac{x^{14}}{14} + \frac{x^{15}}{15} - \frac{x^{16}}{16} + \frac{x^{17}}{17} - \frac{x^{18}}{18} + \frac{x^{19}}{19} - \frac{x^{20}}{20} + \frac{x^{21}}{21} - \frac{x^{22}}{22} + \frac{x^{23}}{23} - \frac{x^{24}}{24} + \frac{x^{25}}{25} - \frac{x^{26}}{26} + \frac{x^{27}}{27} - \frac{x^{28}}{28} + \frac{x^{29}}{29} - \frac{x^{30}}{30} + \frac{x^{31}}{31} - \frac{x^{32}}{32} + \frac{x^{33}}{33} - \frac{x^{34}}{34} + \frac{x^{35}}{35} - \frac{x^{36}}{36} + \frac{x^{37}}{37} - \frac{x^{38}}{38} + \frac{x^{39}}{39} - \frac{x^{40}}{40} + \frac{x^{41}}{41} - \frac{x^{42}}{42} + \frac{x^{43}}{43} - \frac{x^{44}}{44} + \frac{x^{45}}{45} - \frac{x^{46}}{46} + \frac{x^{47}}{47} - \frac{x^{48}}{48} + \frac{x^{49}}{49} - \frac{x^{50}}{50} + \frac{x^{51}}{51} - \frac{x^{52}}{52} + \frac{x^{53}}{53} - 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The natural logarithm of x is the power to which e would have to be raised to equal x . For example, $\ln 7.5$ is 2.0149..., because $e^{2.0149...} = 7.5$. The natural logarithm of e itself, $\ln e$, is 1, because $e^1 = e$, while the natural logarithm of 1 is 0, since $e^0 = 1$.

The natural logarithm can be defined for any positive real number a as the area under the curve $y = 1/x$ from 1 to a (with the area being negative when $0 < a < 1$). The simplicity of this definition, which is matched in many other formulas involving the natural logarithm, leads to the term "natural". The definition of the natural logarithm can then be extended to give logarithm values for negative numbers and for all non-zero complex numbers, although this leads to a multi-valued function: see complex logarithm for more.

The natural logarithm function, if considered as a real-valued function of a positive real variable, is the inverse function of the exponential function, leading to the identities:

e

 $\ln$

?

X

$$=$$

X

if

X

?

R

+

ln

?

e

x

=

x

if

x

?

R

$$\begin{aligned} e^{\ln x} &= x \quad \{\text{if } x \in \mathbb{R}_{+}\} \\ e^x &= x \quad \{\text{if } x \in \mathbb{R}\} \end{aligned}$$

Like all logarithms, the natural logarithm maps multiplication of positive numbers into addition:

ln

?

(

x

?

y

)

=

ln

?

x

+

ln

?

y

.

$$\{\displaystyle \ln(x\cdot y)=\ln x+\ln y.\}$$

Logarithms can be defined for any positive base other than 1, not only e. However, logarithms in other bases differ only by a constant multiplier from the natural logarithm, and can be defined in terms of the latter,

log

b

?

x

=

ln

?

x

/

ln

?

b

=

ln

?

x

?

log

b

?

e

$$\{\displaystyle \log _{b}x=\ln x/\ln b=\ln x\cdot \log _{b}e\}$$

.

Logarithms are useful for solving equations in which the unknown appears as the exponent of some other quantity. For example, logarithms are used to solve for the half-life, decay constant, or unknown time in exponential decay problems. They are important in many branches of mathematics and scientific disciplines, and are used to solve problems involving compound interest.

Bell X-1

The Bell X-1 (Bell Model 44) is a rocket engine–powered aircraft, designated originally as the XS-1, and was a joint National Advisory Committee for Aeronautics–U.S. Army Air Forces–U.S. Air Force supersonic research project built by Bell Aircraft. Conceived during 1944 and designed and built in 1945, it achieved a speed of nearly 1,000 miles per hour (1,600 km/h; 870 kn) in 1948. A derivative of this same design, the Bell X-1A, having greater fuel capacity and hence longer rocket burning time, exceeded 1,600 miles per hour (2,600 km/h; 1,400 kn) in 1954. The X-1 aircraft #46-062, nicknamed Glamorous Glennis and flown by Chuck Yeager, was the first piloted airplane to exceed the speed of sound in level flight and was the first of the X-planes, a series of American experimental rocket planes (and non-rocket planes) designed for testing new technologies.

Cygnus X-1

Cygnus X-1 (abbreviated Cyg X-1) is a galactic X-ray source in the constellation Cygnus and was the first such source widely accepted to be a black hole - Cygnus X-1 (abbreviated Cyg X-1) is a galactic X-ray source in the constellation Cygnus and was the first such source widely accepted to be a black hole. It was discovered in 1964 during a rocket flight and is one of the strongest X-ray sources detectable from Earth, producing a peak X-ray flux density of $2.3 \times 10^{-23} \text{ W/(m}^2\text{Hz)}$ (2.3×10^3 jansky). It remains among the most studied astronomical objects in its class. The compact object is now estimated to have a mass about 21.2 times the mass of the Sun and has been shown to be too small to be any known kind of normal star or other likely object besides a black hole. If so, the radius of its event horizon has 300 km "as upper bound to the linear dimension of the source region" of occasional X-ray bursts lasting only for about 1 ms.

Cygnus X-1 is a high-mass X-ray binary system located about 7,000 light-years away, that includes a blue supergiant variable star. The supergiant and black hole are separated by about 0.2 AU, or 20% of the distance from Earth to the Sun. A stellar wind from the star provides material for an accretion disk around the X-ray source. Matter in the inner disk is heated to millions of degrees, generating the observed X-rays. A pair of relativistic jets, arranged perpendicularly to the disk, are carrying part of the energy of the infalling material away into interstellar space.

This system may belong to a stellar association called Cygnus OB3, which would mean that Cygnus X-1 is about 5 million years old and formed from a progenitor star that had more than 40 solar masses. The majority of the star's mass was shed, most likely as a stellar wind. If this star had then exploded as a supernova, the resulting force would most likely have ejected the remnant from the system. Hence the star may have instead collapsed directly into a black hole.

Cygnus X-1 was the subject of a friendly scientific wager between physicists Stephen Hawking and Kip Thorne in 1975, with Hawking—betting that it was not a black hole—hoping to lose. Hawking conceded the bet in 1990 after observational data had strengthened the case that there was indeed a black hole in the system.

5.56×45mm NATO

(2007). "5.56mm NATO Alternatives". *Special Weapons Magazine*. No. 50. pp. 52–59. Media related to 5.56 x 45 mm NATO at Wikimedia Commons "Brochure on 5.56mm - The 5.56×45mm NATO (official NATO nomenclature 5.56 NATO, commonly pronounced "five-five-six") is a rimless bottlenecked centerfire intermediate cartridge family developed in the late 1970s in Belgium by FN Herstal. It consists of the SS109, L110, and SS111 cartridges. On 28 October 1980, under STANAG 4172, it was standardized as the second standard service rifle cartridge for NATO forces as well as many non-NATO countries. Though they are not identical, the 5.56×45mm NATO cartridge family was derived from the .223 Remington cartridge designed by Remington Arms in the early 1960s, which has a near-identical case but

fires a slightly larger 5.70 mm (.2245 in) projectile.

Android Lollipop

Android version history iOS 8 Material Design OS X Yosemite Windows 8.1 Windows Phone 8.1 "Refs/Tags/Android-5.0.0_r1 – platform/System/Core – Git at Google" - Android Lollipop (codenamed Android L during development) is the fifth major version of the Android mobile operating system developed by Google and the 12th version of Android, spanning versions between 5.0 and 5.1.1.

Unveiled on June 25, 2014, at the Google I/O 2014 conference, it became available through official over-the-air (OTA) updates on November 12, 2014, for select devices that run distributions of Android serviced by Google (such as Nexus and Google Play edition devices). Its source code was made available on November 3, 2014. The first phone with Android Lollipop was the Nexus 6.

One of the most prominent changes in the Lollipop release is a redesigned user interface built around a design language known as Material Design, which was made to retain a paper-like feel to the interface. Other changes include improvements to the notifications, which can be accessed from the lockscreen and displayed within applications as top-of-the-screen banners. Google also made internal changes to the platform, with the Android Runtime (ART) officially replacing Dalvik for improved application performance, and with changes intended to improve and optimize battery usage. The Roboto font, which was originally made for Android Ice Cream Sandwich, was redesigned in favor of Material Design.

As of January 2025, 0.92% of Android devices run Lollipop (0.47% on 5.0, and 0.45% on 5.1). Google Play Services support for Lollipop ended in July 2024.

Scorpius X-1

Scorpius X-1 is a low-mass X-ray binary located roughly 9,000 light years away in the constellation Scorpius. Scorpius X-1 was the first extrasolar X-ray source - Scorpius X-1 is a low-mass X-ray binary located roughly 9,000 light years away in the constellation Scorpius. Scorpius X-1 was the first extrasolar X-ray source discovered, and, aside from the Sun, it is the strongest apparent non-transient source of X-rays in the sky.

QuickTime

Playback Component). Scriptable ActiveX control. QuickTime 6 was initially available for Mac OS 8.6 – 9.x, Mac OS X (10.1.5 minimum), and Windows 98, Me, 2000 - QuickTime (or QuickTime Player) is an extensible multimedia architecture created by Apple, which supports playing, streaming, encoding, and transcoding a variety of digital media formats. The term QuickTime also refers to the QuickTime Player front-end media player application, which is built-into macOS, and was formerly available for Windows.

QuickTime was created in 1991, when the concept of playing digital video directly on computers was "groundbreaking." QuickTime could embed a number of advanced media types, including panoramic images (called QuickTime VR) and Adobe Flash. Over the 1990s, QuickTime became a dominant standard for digital multimedia, as it was integrated into many websites, applications, and video games, and adopted by professional filmmakers. The QuickTime File Format became the basis for the MPEG-4 standard. During its heyday, QuickTime was notably used to create the innovative Myst and Xplora1 video games, and to exclusively distribute movie trailers for several Star Wars movies. QuickTime could support additional codecs through plug-ins, for example with Perian.

As operating systems and browsers gained support for MPEG-4 and subsequent standards like H.264, the need for a cross-platform version of QuickTime diminished, and Apple discontinued the Windows version of QuickTime in 2016. In Mac OS X Snow Leopard, QuickTime 7 was discontinued in favor of QuickTime Player X, which abandoned the aging QuickTime framework in favor of the AVFoundation framework. QuickTime Player X does not support video editing (beyond trimming clips) or plug-ins for additional codec support. macOS Catalina dropped support for all 32-bit applications, including the QTKit framework and the old QuickTime 7.

Persona 5: The Phantom X

Persona 5: The Phantom X is a 2025 role-playing video game developed by Black Wings Game Studio and published by Perfect World in China and South Korea - Persona 5: The Phantom X is a 2025 role-playing video game developed by Black Wings Game Studio and published by Perfect World in China and South Korea, Iwplay World in Taiwan and South Korea and Sega worldwide. The game is a spin-off of Atlus' Persona series, itself a part of the larger Megami Tensei franchise. An open beta in China began on April 12, 2024; it was released worldwide in English on June 26, 2025, for Android, iOS, and Windows.

Staff members from Persona 5 were involved in the development, including series producer Kazuhisa Wada as project supervisor, artist Shigenori Soejima designing the protagonist Wonder, and Ryota Kozuka composing the main theme. The game takes place in modern-day Tokyo and follows a group of characters that wield the power of Persona. It combines elements of social simulation, as the protagonist uses his free time to raise stats and forge bonds with characters, and dungeon crawling in the alternate world known as the Metaverse. The cognitive versions of the people met in the city, including the Phantom Thieves of Hearts from the original game, can be summoned for use in the Metaverse through a gacha system.

Submarine X-1

Submarine X-1 is a 1968 British war film loosely based on the Operation Source attack on the German battleship Tirpitz in 1943. In the film, James Caan - Submarine X-1 is a 1968 British war film loosely based on the Operation Source attack on the German battleship Tirpitz in 1943. In the film, James Caan stars as Lt. Commander Richard Bolton, a Canadian, who must lead a group of midget submarines in an attack on a German battleship.

Mac OS X Leopard

Mac OS X Leopard (version 10.5) is the sixth major release of macOS, Apple's desktop and server operating system for Macintosh computers. Leopard was - Mac OS X Leopard (version 10.5) is the sixth major release of macOS, Apple's desktop and server operating system for Macintosh computers. Leopard was released on October 26, 2007, as the successor of Mac OS X Tiger, and is available in two editions: a desktop version suitable for personal computers, and a server version, Mac OS X Server. It retailed for \$129 for the desktop version and \$499 for Server. Leopard was superseded by Mac OS X Snow Leopard (version 10.6) in 2009. Mac OS X Leopard is the last version of macOS that supports the PowerPC architecture as its successor, Mac OS X Snow Leopard, functions solely on Intel based Macs.

According to Apple, Leopard contains over 300 changes and enhancements compared to its predecessor, Mac OS X Tiger, covering core operating system components as well as included applications and developer tools. Leopard introduces a significantly revised desktop, with a redesigned Dock, Stacks, a semitransparent menu bar, and an updated Finder that incorporates the Cover Flow visual navigation interface first seen in iTunes. Other notable features include support for writing 64-bit graphical user interface applications, an automated backup utility called Time Machine, support for Spotlight searches across multiple machines, and the inclusion of Front Row and Photo Booth, which were previously included with only some Mac models.

Apple missed Leopard's release time frame as originally announced by Apple's CEO Steve Jobs. When first discussed in June 2005, Jobs had stated that Apple intended to release Leopard at the end of 2006 or early 2007. A year later, this was amended to Spring 2007; however, on April 12, 2007, Apple issued a statement that its release would be delayed until October 2007 because of the development of the iPhone.

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