

Geometry Sol Study Guide

Triangles

Thales of Miletus

lost book History of Geometry (4th century BC). Proclus wrote that Thales was the first to visit Egypt and bring the Egyptian study of mathematics to Greece

Thales of Miletus (THAY-leez; Ancient Greek: Θαλῆς; c. 626/623 – c. 548/545 BC) was an Ancient Greek pre-Socratic philosopher from Miletus in Ionia, Asia Minor. Thales was one of the Seven Sages, founding figures of Ancient Greece.

Beginning in eighteenth-century historiography, many came to regard him as the first philosopher in the Greek tradition, breaking from the prior use of mythology to explain the world and instead using natural philosophy. He is thus otherwise referred to as the first to have engaged in mathematics, science, and deductive reasoning.

Thales's view that all of nature is based on the existence of a single ultimate substance, which he theorized to be water, was widely influential among the philosophers of his time. Thales thought the Earth floated on water.

In mathematics...

François Morellet

adopted a pictorial language of simple geometric forms: lines, squares and triangles assembled into two-dimensional compositions. In 1960, he was one of the

François Morellet (30 April 1926 – 10 May 2016) was a French contemporary

abstract painter, sculptor, and light artist. His early work prefigured minimal art and conceptual art and he played a prominent role in the development of geometrical abstract art and post-conceptual art.

Blaise Pascal

tax collector in Rouen. His earliest mathematical work was on projective geometry; he wrote a significant treatise on the subject of conic sections at the

Blaise Pascal (19 June 1623 – 19 August 1662) was a French mathematician, physicist, inventor, philosopher, and Catholic writer.

Pascal was a child prodigy who was educated by his father Étienne Pascal, a tax collector in Rouen. His earliest mathematical work was on projective geometry; he wrote a significant treatise on the subject of conic sections at the age of 16. He later corresponded with Pierre de Fermat on probability theory, strongly influencing the development of modern economics and social science. In 1642, he started some pioneering work on calculating machines

(called Pascal's calculators and later Pascalines), establishing him as one of the first two inventors of the mechanical calculator.

Like his contemporary René Descartes, Pascal was also a pioneer in the natural and applied...

Maya architecture

proportions they used and when their form of measurement is called sacred geometry. It was also practiced by the Egyptians. The Maya played with different

The Mayan architecture of the Maya civilization spans across several thousands of years, several eras of political change, and architectural innovation before the Spanish colonization of the Americas. Often, the buildings most dramatic and easily recognizable as creations of the Maya peoples are the step pyramids of the Terminal Preclassic Maya period and beyond. Based in general Mesoamerican architectural traditions, the Maya utilized geometric proportions and intricate carving to build everything from

simple houses to ornate temples. This article focuses on the more well-known pre-classic and classic examples of Maya architecture. The temples like the ones at Palenque, Tikal, and Uxmal represent a zenith of Maya art and architecture. Through the observation of numerous elements and stylistic...

Dan Graham

the gallery, he exhibited works by minimalist artists such as Carl André, Sol LeWitt—LeWitt's first solo gallery show, Donald Judd, Robert Rauschenberg, and

Daniel Graham (March 31, 1942 – February 19, 2022) was an American visual artist, writer, and curator in the writer-artist tradition. In addition to his visual works, he published a large array of critical and speculative writing that spanned the spectrum from heady art theory essays, reviews of rock music, Dwight D. Eisenhower's paintings, and Dean Martin's television show. His early magazine-based art predates, but is often associated with, conceptual art. His later work focused on cultural phenomena by

incorporating photography, video, performance art, glass and mirror installation art structures, and closed-circuit television. He lived and worked in New York City.

Tiwanaku

Another argument is for the Pythagorean Ratio. This idea calls for right triangles at a ratio of five to four to three used in the gateways to measure all

Tiwanaku (Spanish: Tiahuanaco or Tiahuanacu) is a Pre-Columbian archaeological site in western Bolivia, near Lake Titicaca, about 70 kilometers from La Paz, and it is one of the largest sites in South America. Surface remains currently cover around 4 square kilometers and include decorated ceramics, monumental structures, and megalithic blocks. It has been conservatively estimated that the site was inhabited by 10,000 to 20,000 people in AD 800.

The site was first recorded in written history in 1549 by Spanish conquistador Pedro Cieza de León while he was searching for the southern Inca capital of

Qullasuyu.

Jesuit chronicler of Peru Bernabé Cobo reported that Tiwanaku's name once was taypiqala, which is Aymara meaning "stone in the center", alluding to the belief that it lay at the center...

Algol

doi:10.3847/1538-4357/ab0e83. ISSN 0004-637X. Soderhjelm, S. (1980). "Geometry and dynamics of the Algol system". Astronomy and Astrophysics. 89 (1-2):

Algol , designated Beta Persei (β Persei, abbreviated Beta Per, β Per), known colloquially as the Demon Star, is a bright multiple star in the constellation of Perseus and one of the first non-nova variable stars to be discovered.

Algol is a three-star system, consisting of Beta Persei Aa1, Aa2, and Ab - in which the hot luminous primary β Persei Aa1 and the larger, but cooler and fainter, β Persei Aa2 regularly pass in front of each other, causing eclipses.

Thus Algol's magnitude is usually near-constant at 2.1, but regularly dips to 3.4 every 2.86 days during the roughly 10-hour-long partial eclipses. The secondary eclipse when the brighter primary star occults the fainter secondary is very shallow and can only be detected photoelectrically.

Algol gives its name to its class of eclipsing...

List of Italian inventions and discoveries

studies mainly concern the projective geometry of hyperspaces and the first phase of algebraic geometry [...] and projective-differential geometry.

Italian inventions and discoveries are objects, processes or techniques invented, innovated or discovered, partially or entirely, by Italians.

Italian people - living in the Italic peninsula or abroad - have been throughout history the source of important inventions and innovations in the fields of writing, calendar, mechanical and civil engineering, musical notation, celestial observation, perspective, warfare, long distance communication,

storage and production of energy, modern medicine, polymerization and information technology.

Italians also contributed in theorizing civil law, scientific method (particularly in the fields of physics and astronomy), double-entry bookkeeping, mathematical algebra and analysis, classical and celestial mechanics. Often, things discovered for the first time...

List of file formats

Solidedge Draft DGN - MicroStation design file DGK - Delcam Geometry DMT - Delcam Machining Triangles DXF - ASCII Drawing Interchange file format, AutoCAD DWB

This is a list of computer file formats, categorized by domain. Some formats are listed under multiple categories.

Each format is identified by a capitalized word that is the format's full or abbreviated name. The typical file name extension used for a format is

included in parentheses if it differs from the identifier, ignoring case.

The use of file name extension varies by operating system and file system. Some older file systems, such as File Allocation Table (FAT), limited an extension to 3 characters but modern systems do not. Microsoft operating systems (i.e. MS-DOS and Windows) depend more on the extension to associate contextual and semantic meaning to a file than Unix-based systems.

Alkali-silica reaction

polymerisation and gelation by the sol-gel process. Condensation of silicate monomers or oligomers dispersed in a colloidal solution (sol) into a biphasic aqueous

The alkali-silica reaction (ASR), also commonly known as concrete cancer, is a deleterious internal swelling reaction that occurs over time in concrete between the highly alkaline cement paste and the reactive amorphous (i.e., non-crystalline) silica found in many common aggregates, given sufficient moisture.

This deleterious chemical reaction causes the expansion of the altered aggregate by the formation of a soluble and viscous gel of sodium silicate ($\text{Na}_2\text{SiO}_3 \cdot n \text{H}_2\text{O}$, also noted $\text{Na}_2\text{H}_2\text{SiO}_4 \cdot n \text{H}_2\text{O}$, or N-S-H (sodium silicate hydrate), depending on the adopted convention). This hygroscopic gel swells and increases in volume when absorbing water: it exerts an expansive pressure inside the siliceous aggregate, causing spalling and loss of strength of the concrete, finally leading to its failure...

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