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Sat subject test math level 2 past papers pdf

If you have taken trigonometry or elementary functions (precalculus) or both, received grades of B or better in these courses, and are comfortable knowing when and how to use a scientific or graphing calculator, you should select the Level 2 test. If you are sufficiently prepared to take Level 2, but elect to take Level 1 in hopes of receiving a higher score, you may not do as well as you expect. You may want to consider taking the test that covers the topics you learned most recently, since the material will be fresh in your mind. You should also consider the requirements of the colleges and programs you are interested in. Areas of Overlap on Math Level 1 and Math Level 2

The content of Level 1 has some overlap with Level 2, especially in the following areas: Elementary algebra Three-dimensional geometry Coordinate geometry Statistics Basic trigonometry How Test Content Differs Although some questions may be appropriate for both tests, the emphasis for Level 2 is on more-advanced content. The tests differ significantly in the following areas: Number and Operations. Level 1 measures a more basic understanding of the topics than Level 2. For example, Level 1 covers the arithmetic of complex numbers, but Level 2 also covers graphical and other properties of complex numbers. Level 2 also includes series and vectors. Algebra and Functions. Level 1 contains mainly algebraic equations and functions, whereas Level 2 also contains more advanced equations and functions, such as exponential, logarithmic and trigonometric. Geometry and Measurement. A significant percentage of the questions on Level 1 is devoted to plane Euclidean geometry and measurement, which is not tested directly on Level 2. On Level 2, the concepts learned in plane geometry are applied in the questions on coordinate geometry and three-dimensional geometry. The trigonometry questions on Level 1 are primarily limited to right triangle trigonometry (sine, cosine, tangent) and the fundamental relationships among the trigonometric ratios. Level 2 includes questions about ellipses, hyperbolas, polar coordinates and coordinates in three dimensions. The trigonometry questions on Level 2 place more emphasis on the properties and graphs of trigonometric functions, the inverse trigonometric functions, trigonometric equations and identities, and the laws of sines and cosines. Data Analysis, Statistics and Probability. Both Level 1 and Level 2 include mean, median, mode, range, interquartile range, data interpretation and probability. Level 2 also includes standard deviation. Both include least-squares linear regression, but Level 2 also includes quadratic and exponential regression. Seek advice from your high school math teacher if you are still unsure of which test to take. Keep in mind you can choose to take either test on test day, regardless of what test you registered for. Please note that these tests reflect what is commonly taught in high school. Due to differences in high school classes, it's likely that most students will find questions on topics they're not familiar with. This is nothing to worry about. You do not have to get every question correct to receive the highest score (800) for the test. Many students do well despite not having studied every topic covered. Page 2 beginning of content: In the U.S., the SAT Subject Test in Mathematics Level 2 (formerly known as Math II or Math IIC, the "C" representing the sanctioned use of a calculator) was a one-hour multiple choice test. The questions covered a broad range of topics. Approximately 10-14% of questions focused on numbers and operations, 48-52% focused on algebra and functions, 28-32% focused on geometry (coordinate, three-dimensional, and trigonometric geometry were covered; plane geometry was not directly tested), and 8-12% focused on data analysis, statistics and probability.[1] Compared to Mathematics 1, Mathematics 2 was more advanced. Whereas the Mathematics 1 test covered Algebra II and basic trigonometry, a pre-calculus class was good preparation for Mathematics 2.[2] On January 19 2021, the College Board discontinued all SAT Subject tests, including the SAT Subject Test in Mathematics Level 2. This was effective immediately in the United States, and the tests were to be phased out by the following summer for international students.[3][4] This was done as a response to changes in college admissions due to the impact of the COVID-19 pandemic on education.[5] Format The test had 50 multiple choice questions that were to be answered in one hour.[6] All questions had five answer choices. Students received 1 point for every correct answer, lost ¼ of a point for each incorrect answer, and received 0 points for questions left blank. Calculator use The College Board stated that a calculator "may be useful or necessary" for about 55-60% of the questions on the test. The College Board also encouraged the use of a graphing calculator over a scientific calculator,[7] saying that the test was "developed with the expectation that most students are using graphing calculators." [8] For the Mathematics Level Two test, students were not permitted to use calculators that have a QWERTY format keyboard, require an electrical outlet, make noise, use paper tape, have non-traditional methods of input (such as a stylus), or are part of a communication device (such as PDAs, laptops, or cell phones). [8] Preparation The College Board suggested as preparation for the test four years of mathematics, including two years of algebra, one year of geometry, and one year of either precalculus or trigonometry. [9] While the precalculus or trigonometry course may have been good preparation for this test, students could have needed to buy extra resource materials if they want to score beyond a 700. The exam covered several years of mathematics, and students were expected to work quickly and efficiently. Scoring For each of the 50 multiple choice questions, students received 1 point for every correct answer, lost ¼ of a point for each incorrect answer, and received 0 points for questions left blank. This created a raw score, which was then converted into a scaled score. The conversion between these numbers varied depending on the difficulty of a particular test administration. The scaled score was the only score reported to either students or colleges, and ranged from 200 to 800, with 800 being the best possible score. The standard deviation of the test scores in 2006 was 105.[10] 15 percent of the 2012 college-bound seniors taking the test received a perfect score of 800.[11] See also SAT SAT Subject Tests PSAT/NMSQT References ^ "Mathematics Level 2 Subject Test". SAT Suite of Assessments. 7 January 2016. Retrieved 1 June 2019. ^ "Compass Education Group FAQ". Compassprep.cpm. Retrieved 1 June 2019. ^ Nick Anderson, College Board is scrapping SAT's optional essay and subject tests, Washington Post (January 19, 2021). ^ "College Board Will No Longer Offer SAT Subject Tests or SAT with Essay – College Board Blog". blog.collegeboard.org. Retrieved 2021-02-14. ^ Aspegren, Elinor. "Adjusting to 'new realities' in admissions process, College Board eliminates SAT's optional essay and subject tests". USA TODAY. ^ "SAT Subject Tests Preparation Booklet" (PDF). The College Board. pp. 17–22. Retrieved July 2, 2007. ^ "SAT Subject Test in Mathematics Level 2". The College Board. Retrieved July 2, 2007. ^ a b "SAT Calculator Policy". The College Board. Retrieved July 2, 2007. ^ "SAT Subject Tests Preparation Booklet" (PDF). The College Board. pp. 17–22. Retrieved July 2, 2007. ^ "SAT Subject Test Percentile Ranks, 2009 College-Bound Seniors" (PDF). Media.collegeboard.com. Retrieved 1 June 2019. Retrieved from " © 1996-2015, Amazon.com, Inc. or its affiliates Two dice are tossed. What is the probability that the sum of the two dice is greater than 3? A) 1/4 B) 3/4 C) 5/6 D) 11/12 E) 1 Solution on Video If L is a line through the points (2,5) and (4,6), what is the value of k so that the point of coordinates (7,k) is on the line L? A) 0 B) 5 C) 6 D) 15/2 E) 11 Solution on Video Find a negative value of k so that the graph of y = x2 - 2x + 7 and the graph of y = kx + 5 are tangent? A) - 4/2 B) - 2 - 2/2 C) - 2 D) - √2 E) - 2 + √2 Solution on Video Which of these graphs is the closest to the graph of f(x) = |4 - x2| / (x + 2)? . The circle of equation (x - 3)2 + (y - 2)2 = 1 has center c. Point M(4,2) is on the circle. N is another point on the circle so that angle MCN has a size of 30°. Find the coordinates of point N. . A) (3 + √3/2 , 5/2) B) (5/2 , 3 + √3/2) C) (3 - √3/2 , 3/2) D) (3/2 , 3 - √3/2) E) (4 , 3) Solution on Video Vectors u and v are given by u = (2 , 0) and v = (-3 , 1). What is the length of vector w given by w = -u - 2v? A) 10 B) 6 C) √26 D) 2√5 E) 2 Solution on Video What is the smallest distance between the point(-2,-2) and a point on the circumference of the circle given by (x - 1)2 + (y - 2)2 = 4? A) 3 B) 4 C) 5 D) 6 E) 7 Solution on Video What is the equation of the horizontal asymptote of function f(x) = 2/(x + 2) - (x + 3)/(x + 4)? A) - 4 B) - 2 C) - 1 D) 0 E) 1 The lines with equations x + 3y = 2 and -2x + ky = 5 are perpendicular for k = A) -3 B) -2 C) -1 D) 0 E) 2/3 If f(x) = (x - 1)2 and g(x) = √x, then (g o f)(x) = A) |x - 1| B) x - 1 C) 1 - x D) √x(x - 1)2 E) (√x - 1)2 The domain of f(x) = √(4 - x2) / √(x2 - 1) is given by the interval A) (-2 , 2) B) (-1 , 2) C) (-2 , -1) U (1 , 2) D) (-2 , 2) U (-1 , 1) E) [-2 , -1) U (1 , 2] The area of the circle x2 + y2 - 8y - 48 = 0 is A) 96Pi B) 64Pi C) 48Pi D) 20Pi E) Pi Solution on Video The y coordinates of all the points of intersection of the parabola y2 = x + 2 and the circle x2 + y2 = 4 are given by A) 2 , -2 B) 0 C) 0 , √3 , - √3 D) 1 , 2 , -2 , -1 E) 1 , -2 , -1 What is the smallest positive zero of function f(x) = 1/2 - sin(3x + Pi/3)? A) Pi B) Pi/3 C) Pi/6 D) Pi/18 E) Pi/36 If x - 1, x - 3 and x + 1 are all factors of a polynomial P(x) of degree 3, which of the following must also be a factor of P(x)? I) x2 + 1 II) x2 - 1 III) x2 - 4x + 3 A) II and III only B) I and II only C) III only D) II only E) I only A cylinder of radius 5 cm is inserted within a cylinder of radius 10 cm. The two cylinders have the same height of 20 cm. What is the volume of the region between the two cylinders? A) 1000 B) 500Pi C) 1000Pi D) 1500Pi E) 2000Pi A data set has a standard deviation equal to 1. If each data value in the data set is multiplied by 4, then the value of the standard deviation of the new data set is equal to A) 0.25 B) 0.50 C) 1 D) 2 E) 4 A cone made of cardboard has a vertical height of 8 cm and a radius of 6 cm. If this cone is cut along the slanted height to make a sector, what is the central angle, in degrees, of the sector? A) 216 B) 180 C) 90 D) 36 E) 1.2 If sin(x) = -1/3 and Pi ≤ x ≤ 3Pi/2, then cot(2x) = A) 8 B) 4/2 C) 2√2 D) √2 E) 7/(4√2) Which of the following functions satisfy the condition f(x) = f -1(x)? I) f(x) = -x II) f(x) = √x III) f(x) = -1/x A) III and II only B) III and I only C) III only D) II only E) I only If f(x) = 1 / (x - 2), which of the following graphs is closest to the graph of f(x)? . If in a triangle ABC, sin(A) = 1/5, cos(B) = 2/7, then cos(C) = A) (√45 - 2√24)/35 B) (√45 + 2√24)/35 C) (7√24 + 10)/35 D) 0.85 E) 1 Find the sum A) 300 B) 5050 C) 5300 D) 5350 E) 5400 What value of x makes the three terms x, x/(x + 1) and 3 x/[(x + 1) (x + 2)] those of a geometric sequence? A) 2 B) 1 C) 1/2 D) 1/4 E) -1/2 As x increases from Pi/4 to 3 Pi/4, |sin(2x)| A) always increases B) always decreases C) increases then decreases D) decreases then increases E) stay constant If ax3 + bx2 + c x + d is divided by x - 2, then the remainder is equal A) d B) a - b + c - d C) 8a + 4b + 2c + d D) -8a + 4b -2c + d E) a + b + c + d A committee of 6 teachers is to be formed from 5 male teachers and 8 female teachers. If the committee is selected at random, what is the probability that it has an equal number of male and female teachers? A) 1/10 B) 140/429 C) 150/429 D) 160/429 E) 170/429 The range of the function f(x) = -|x - 2| - 3 is A) y ≥ 2 B) y ≤ -2 B) y ≥ -2 D) y ≤ -2 E) y ≥ -2 What is the period of the function f(x) = 3 sin(2(2x + Pi/4)? A) 4Pi B) 3Pi C) Pi D) Pi/2 E) Pi/3 It is known that 3 out of 10 television sets are defective. If 2 television sets are selected at random from the 10, what is the probability that 1 of them is defective? A) 7/15 B) 1/10 C) 1/2 D) 1/3 E) 1 In a triangle ABC, angle B has a size of 50o, angle A has a size of 32o and the length of side BC is 150 units. The length of side AB is A) 232 B) 250 C) 260 D) 270 E) 280 For the remainder of the division of x3 - 2x2 + 3x + 18 by x - 6 to be equal to zero, k must be equal to A) 0 B) 1 C) 5 D) -9 E) -10 It takes pump (A) 4 hours to empty a swimming pool. It takes pump (B) 6 hours to empty the same swimming pool. If the two pumps are started together, at what time will the two pumps have emptied 50% of the water in the swimming pool? A) 1 hour 12 minutes B) 1 hour 20 minutes C) 2 hours 30 minutes D) 3 hours E) 5 hours The graph of r = 10 cos(θ) , where r and θ are the polar coordinates, is A) a circle B) an ellipse C) a horizontal line D) a hyperbola E) a vertical line If (2 - i)^(a - bi) = 2 + 9i, where i is the imaginary unit and a and b are real numbers, then a equals A) 3 B) 2 C) 1 D) 0 E) -1 Lines L1 and L2 are perpendicular that intersect at the point (2 , 3). If L1 passes through the point (0 , 2), then line L2 must pass through the point A) (0 , 3) B) (1 , 1) C) (3 , 1) D) (5 , 0) E) (6 , 7) A square pyramid is inscribed in a cube of total surface area of 24 square cm such that the base of the pyramid is the same as the base of the cube. What is the volume of the pyramid? . A) 1/3 B) 8/3 C) 6 D) 4 E) 8 The graph defined by the parametric equations x = cos2t y = 3 sint -1 is A) a circle B) a hyperbola C) a vertical line D) part of a parabola E) an ellipse . A) 33 B) 32 C) 30 D) 1 E) 0 For x > 0 and x not equal to 1, log16(x) = A) 8 log2(x) B) 4 log2(x) D) 0.25 log2(x) E) 0.125 log2(x) The value of k that makes function f, defined below, continuous is . A) 1/3 B) 1 C) 2 D) 5 E) 6 If logb(a) = x and logb(c) = y, and 4 x + 6 y = 8, then logb(ac2.3) A) 0 B) 1 C) 2 D) 3 E) 4 The point (0 , -2 , 5) lies on the A) z axis B) x axis C) xy plane D) yz plane E) xz plane Curve C is defined by the equation y = √(9 - x2) with x≥ 0. The area bounded by curve C, the x axis and the y axis is A) Pi/4 B) 9Pi/4 C) 9Pi/2 D) 9Pi E) (81/4)Pi In a plane there are 6 points such that no three points are collinear. How many triangles do these points determine? A) 2 B) 3 C) 6 D) 18 E) 20 . Find a, b and c. A) 2 , -1 , 3 B) 1 , -2 , 3 C) 3 , -2 , 1 D) 1 , 2 , 3 E) 1 , 2 , -3 If the sum of the repeating decimals 0.353535... + 0.252525... is written as a fraction in lowest terms, the product of the numerator and denominator is A) 3465 B) 2475 C) 680 D) 670 E) 660 sin(tan-1/2) = A) 0.82 B) 0.83 C) 0.84 D) 0.85 E) 0.86 If 8x = 2 and 3x+y = 81, then y = A) 1/3 B) 9/3 C) 11/3 D) 13/3 E) 4 Let f(x) = -x2 / 2. If the graph of f(x) is translated 2 units up and 3 units left and the resulting graph is that of g(x), then g(1/2) = A) 0 B) -1/8 C) -2/8 D) -33/8 E) 13/8 sat subject test math level 2 past papers pdf. past papers question bank sat subject test math level 2

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