

Calculus Ab Free Response Solutions

This is likewise one of the factors by obtaining the soft documents of this **calculus ab free response solutions** by online. You might not require more mature to spend to go to the books opening as capably as search for them. In some cases, you likewise complete not discover the broadcast calculus ab free response solutions that you are looking for. It will unquestionably squander the time.

However below, following you visit this web page, it will be so totally simple to acquire as without difficulty as download lead calculus ab free response solutions

It will not put up with many times as we accustom before. You can do it though operate something else at home and even in your workplace. so easy! So, are you question? Just exercise just what we provide under as competently as evaluation **calculus ab free response solutions** what you subsequent to to read!

Calculus 1 Final Exam Review - Multiple Choice *u0026 Free Response Problems AP Calculus AB Exam 2017 FRQ #2* AP Calculus AB *u0026 AP Calculus BC 2019 Exam FRQ #1* *AP Calculus AB u0026 AP Calculus BC 2018 Exam FRQ #1* *2019 AP Calculus AB Exam FRQ #6* **2018 AP Calculus AB FRQ 6** AP-Calculus-AB: Unit 1 Limits Review 2013 AP Calculus AB FRQ 1 2018 AP Calculus AB Free Response Solutions #12003 *AP Calculus: AB FRQ Solutions 2019 AP Calculus AB u0026 BC Free Response Question #1* *Calculus at a Fifth Grade Level* Cramming BC Calculus in less than 10 minutes // Asha. Maeesha. Hanna. // *Photostudy Calculus and Trigonometry Subject test answer Calculus 1 Lecture 1.1: An Introduction to Limits* AP Calculus Review Three Theorems You Must Know2018 AP Calculus AB FRQ 2 AP Calculus BC Exam 2018 FRQ #6 *AP Calculus AB u0026 AP Calculus BC 2016 Exam FRQ #3* AP Calculus AB *u0026 AP Calculus BC 2016 Exam FRQ #12019 AP Calculus BC Exam FRQ #2* 2018 AP Calculus AB FRQ 5 **AP Calculus AB Exam Review: Practice Exam Problems u0026 Solutions (Multiple Choice, No Calculator)** AP-Calculus-AB: Unit 2 Derivatives Review AP-Calculus-AB: 7.4 Reasoning Using Slope Fields 2017 AP Calculus AB FRQ #1 Free Response Questions FRQ Solution Scoring Guidelines Table amount *AP Calculus AB u0026 AP Calculus BC 2019 Exam FRQ #4* AP Calculus AB 2016 Exam FRQ #4**2014 AP Calculus AB Free-Response Question 2 Solution 1080p HD** *Calculus Ab Free Response Solutions* AP Calculus AB Exam Free-Response Questions and Scoring Information Archive. Download free-response questions from past exams along with scoring guidelines, sample responses from exam takers, and scoring distributions. AP Exams are regularly updated to align with best practices in college-level learning. Not all free-response questions on this page reflect the current exam, but the question types and the topics are similar, making them a valuable resource for students.

AP Calculus AB Exam Free-Response Questions and Scoring ...

This is the fully worked out 2018 AP Calculus AB Free Response Question #1. Link to problems: <https://apcentral.collegeboard.org/pdf/ap18-frq-calculus-ab.pdf...>

2018 AP Calculus AB Free Response Solutions #1

Free-Response Questions Download free-response questions from past exams along with scoring guidelines, sample responses from exam takers, and scoring distributions. If you are using assistive technology and need help accessing these PDFs in another format, contact Services for Students with Disabilities at 212-713-8333 or by email at ssd@info.collegeboard.org.

AP Calculus AB: Past Exam Questions | AP Central - The ...

Solutions to 2019 AB and BC free response questions AP Calculus AB 2017 Free-Response Solutions Louis A. Talman, Ph.D. Emeritus Professor of Mathematics Metropolitan State University of Denver May 18, 2017 1 Problem 1 1.1 Part a The approximation with a left-hand sum using the intervals given is $50:32+14:43+6:55 = 176:3$: (1) 1.2 Part b AP ...

Calculus Ab Free Response Solutions - theplayshed.co.za

By the Fundamental Theorem of Calculus, $\int_2^6 f(x)dx = f(2) - f(6) = 7 - 4 = 3$. But the value of this integral is the area of a triangle whose base is four and whose altitude is two, so $f(2) - f(6) = 4$, and $f(2) = 7$. Similarly, $\int_5^7 f(x)dx = f(5) - f(7)$, while the value of this integral is the area of a triangle of base three, altitude two, less the area of a half

AP Calculus AB 2017 Free-Response Solutions

FREE-RESPONSE SOLUTIONS ~ 2015 AB 5 Question AB-3 (a) (i) 240 200 meters/minute 16 20 12 minute $v \approx -1$ (b) (i) 40 $\int vt dt$ is the total distance in meters that Johanna jogged during the time interval from 0 to 40 minutes. 2 The right Riemann sum approximation is 200 12 240 8 220 4 150 16 + + + + meters. 3

2015 AP Calculus AB and BC Free-Response Solutions

AP Calculus AB 2018 Free Response Question 2 Particle motion along the x-axis problem. Given velocity. Find derivative at a point, acceleration, using calculator. Find position using the FTC (Fundamental Theorem of Calculus). Distinguish between displacement and distance traveled. Find when velocity is equal to that of a second particle. 2.

AP Calculus AB 2018 Exam (solutions, questions, videos)

bibme free bibliography amp citation maker mla apa may 5th, 2018 - bibme free bibliography amp citation maker mla apa chicago harvard" Amazon Com Student Solutions Manual To Accompany Multiple May 2nd, 2018 - Buy Student Solutions Manual To Accompany Multiple Choice And Free Response Questions In Preparation For The AP Calculus AB Examination On Amazon Com FREE SHIPPING On Qualified Orders '

Calculus Ab Response Examination Ninth Edition Solutions

Questions and Worked Solutions for AP Calculus AB 2016. 1. Water is pumped into a tank at a rate modeled by $W(t) = 2000e^{-t/20}$ liters per hour for $0 \leq t \leq 8$, where t is measured in hours. Water is removed from the tank at a rate modeled by $R(t)$ liters per hour, where R is differentiable and decreasing on $0 \leq t \leq 8$.

AP Calculus AB 2016 Exam (solutions, questions, videos)

Solution (a) $v(t) = 23 - 3t^2$ (i) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (ii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (iii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (iv) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (v) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (vi) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (vii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (viii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (ix) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (x) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xi) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xiii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xiv) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xv) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xvi) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xvii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xviii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xix) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xx) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xxi) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xxii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xxiii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xxiv) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xxv) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xxvi) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xxvii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xxviii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xxix) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xxx) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xxxi) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xxxii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xxxiii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xxxiv) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xxxv) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xxxvi) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xxxvii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xxxviii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xxxix) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xl) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xli) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xliii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xliv) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlv) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlvi) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlvii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlviii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlvix) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlv) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlvi) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlvii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlviii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlvix) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xl) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xli) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xliii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xliv) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlv) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlvi) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlvii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlviii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlvix) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xl) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xli) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xliii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xliv) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlv) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlvi) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlvii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlviii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlvix) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xl) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xli) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xliii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xliv) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlv) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlvi) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlvii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlviii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlvix) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xl) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xli) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xliii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xliv) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlv) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlvi) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlvii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlviii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlvix) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xl) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xli) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xliii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xliv) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlv) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlvi) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlvii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlviii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlvix) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xl) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xli) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xliii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xliv) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlv) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlvi) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlvii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlviii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlvix) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xl) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xli) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xliii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xliv) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlv) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlvi) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlvii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlviii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlvix) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xl) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xli) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xliii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xliv) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlv) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlvi) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlvii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlviii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlvix) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xl) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xli) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xliii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xliv) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlv) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlvi) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlvii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlviii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlvix) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xl) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xli) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xliii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xliv) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlv) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlvi) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlvii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlviii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlvix) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xl) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xli) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xliii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xliv) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlv) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlvi) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlvii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlviii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlvix) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xl) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xli) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xliii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xliv) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlv) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlvi) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlvii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlviii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlvix) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xl) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xli) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xliii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xliv) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlv) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlvi) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlvii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 = 46 - 8 = 38$ (xlviii) $\int_0^2 (23 - 3t^2) dt = 23t - t^3 \Big|_0^2 =$