



Skill Builder: Topic 6.7 – The Fundamental Theorem of Calculus and Definite Integrals (Big 10)

Complete the ten problems below. Once you complete each problem, cross off the appropriate value in the box below according to the instructions. If done correctly, you will have all 10 numbers crossed off with no repeats. Express all fractional answers as improper fractions.

0	1	2	3	4	5	6	7	8	9
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Problem	Instructions
1. $\int_0^1 3x \, dx = \frac{3}{2}x^2 \Big _0^1 = \frac{3}{2}(1)^2 - \frac{3}{2}(0)^2 = \frac{3}{2}$	Cross off the value of the numerator of your answer. Cross off 3.
2. $\int_{-2}^3 (x-5) \, dx =$ $\left(\frac{1}{2}x^2 - 5x \right) \Big _{-2}^3 = \frac{1}{2}(3)^2 - 5(3) - \left[\frac{1}{2}(-2)^2 - 5(-2) \right]$ $= \frac{9}{2} - 15 - (2 + 10) = \frac{9}{2} - 27 = \frac{9}{2} - \frac{54}{2} = -\frac{45}{2}$	Cross off the value that is equivalent to the sum of the positive digits of the numerator of your answer. $4 + 5 = 9$ Cross off 9.
3. Given $g(x) = \int_x^2 \frac{1}{1+t^4} \, dt$, find $g'(2)$. $g'(x) = \frac{1}{1+x^4} \therefore g'(2) = \frac{1}{1+2^4} = \frac{1}{17}$	Cross off the units (ones) digit in denominator of your answer. Cross off 7.
4. $\int_{-2}^{-1} \left(x - \frac{1}{x^2} \right) \, dx$ $= \frac{1}{2}x^2 - \left(-\frac{1}{x} \right) \Big _{-2}^{-1} = \frac{1}{2}(-1)^2 - \frac{1}{-1} - \left(\frac{1}{2}(-2)^2 - \frac{1}{-2} \right)$ $= \frac{1}{2} - 1 - 2 + \frac{1}{2} = -2$	Cross off the absolute value of your answer. Cross off 2.
5. $\int_1^9 \left(\frac{x-2}{\sqrt{x}} \right) \, dx$ $= \int_1^9 \left(\frac{x}{\sqrt{x}} - \frac{2}{\sqrt{x}} \right) \, dx = \int_1^9 (x^{1/2} - 2x^{-1/2}) \, dx$ $= \frac{2}{3}x^{3/2} - 4x^{1/2} \Big _1^9 = \frac{2}{3}(\sqrt{9})^3 - 4\sqrt{9} - \left(\frac{2}{3}(\sqrt{1})^3 - 4\sqrt{1} \right)$ $= \frac{2}{3} \cdot 27 - 12 - \frac{2}{3} + 4 = 18 - 12 - \frac{2}{3} + 4 = 10 - \frac{2}{3} = \frac{30}{3} - \frac{2}{3} = \frac{28}{3}$	Cross off the units (ones) digit in numerator of your answer. Cross off 8.

Big Odeas Math Advanced Topic 6

Gail Burrill, Dani Ben-Zvi



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Big Ideas Math 6 Advanced Topics Florida Edition Big Ideas Learning, LLC, 2010-04-01 *Big Ideas Math Advanced 2* Larson, 2014-01-01 *Big Ideas Math Advanced 1* Larson, 2014-01-01 *Big Ideas Math Advanced 2* Larson, 2014-01-01

Big Ideas Math Advanced 1 Larson, 2014-01-01 *Topics and Trends in Current Statistics Education Research* Gail Burrill, Dani Ben-Zvi, 2018-12-29 This book focuses on international research in statistics education providing a solid understanding of the challenges in learning statistics. It presents the teaching and learning of statistics in various contexts including designed settings for young children, students in formal schooling, tertiary level students and teacher professional development. The book describes research on what to teach and platforms for delivering content, curriculum strategies on how to teach for deep understanding and includes several chapters on developing conceptual understanding, pedagogy and technology, teacher knowledge and beliefs and the challenges teachers and students face when they solve statistical problems, reasoning and thinking. This new research in the field offers critical insights for college instructors, classroom teachers, curriculum designers, researchers in mathematics and statistics education as well as policy makers and newcomers to the field of statistics education. Statistics has become one of the key areas of study in the modern world of information and big data. The dramatic increase in demand for learning statistics in all disciplines is accompanied by tremendous growth in research in statistics education. Increasingly, countries are teaching more quantitative reasoning and statistics at lower and lower grade levels within mathematics, science and across many content areas. Research has revealed the many challenges in helping learners develop statistical literacy, reasoning and thinking and new curricula and technology tools show promise in facilitating the achievement of these desired outcomes. *Big Ideas Math Course 1* Larson, 2014-01-01 **Traditions in German-Speaking Mathematics Education Research** Hans Niels Jahnke, Lisa Hefendehl-Hebeker, 2019-02-13 This open access book shares revealing insights into the development of mathematics education research in Germany from 1976 ICME 3 in Karlsruhe to 2016 ICME 13 in Hamburg. How did mathematics education research evolve in the course of these four decades? Which ideas and people were most influential and how did German research interact with the international community? These questions are answered by scholars from a range of fields and in ten thematic sections: 1 a short survey of the development of educational research on mathematics in German speaking countries, 2 subject matter didactics, 3 design science and design research, 4 modelling, 5 mathematics and Bildung, 1810 to 1850, 6 Allgemeinbildung, Mathematical Literacy and Competence Orientation, 7 theory traditions, 8 classroom studies, 9 educational research and 10 large scale studies. During the time span presented here, profound changes took place in German speaking mathematics education research. Besides the traditional fields of activity like subject matter didactics or design science, completely new areas also emerged which are characterized by various empirical approaches and a closer connection to psychology, sociology, epistemology and general education research. Each chapter presents a respective area of mathematics education in Germany and analyzes its

relevance for the development of the research community not only with regard to research findings and methods but also in terms of interaction with the educational system One of the central aspects in all chapters concerns the constant efforts to find common ground between mathematics and education In addition readers can benefit from this analysis by comparing the development shown here with the mathematical education research situation in their own country

Big Ideas Math National Geographic School Publishing, Incorporated, 2018-08-08

ICIW2012-Proceedings of the 7th International Conference on Information Warfare and Security Volodymyr Lysenko, 2012

Te Math Advantage 98 Gr 6 Vol 1 Harcourt Brace Publishing, 1997-10-10

(Free version) Abacus & Mental Arithmetic Course Book Mathewmatician, All four arithmetic examples and exercises are provided with detailed and smooth versions of video teaching It is suitable to Children with strong self learning ability Parents who train their children on their own Kindergarten or Primary school teacher Students majoring in early childhood education or elementary education in universities and colleges Those who are interested in becoming an abacus and mental arithmetic teacher or are interested in running an abacus and mental arithmetic class

ENC Focus, 2001

[A Mathematical Primer for Social Statistics](#) John Fox, 2021-01-11 A Mathematical Primer for Social Statistics Second Edition presents mathematics central to learning and understanding statistical methods beyond the introductory level the basic language of matrices and linear algebra and its visual representation vector geometry differential and integral calculus probability theory common probability distributions statistical estimation and inference including likelihood based and Bayesian methods The volume concludes by applying mathematical concepts and operations to a familiar case linear least squares regression The Second Edition pays more attention to visualization including the elliptical geometry of quadratic forms and its application to statistics It also covers some new topics such as an introduction to Markov Chain Monte Carlo methods which are important in modern Bayesian statistics A companion website includes materials that enable readers to use the R statistical computing environment to reproduce and explore computations and visualizations presented in the text The book is an excellent companion to a math camp or a course designed to provide foundational mathematics needed to understand relatively advanced statistical methods

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