

③ Answer: 3

④ plug-n-pray yields $\frac{0}{1} = 0$

⑤ $\frac{x^2}{\sin^2 3x} = \frac{1}{\textcircled{9}} \cdot \frac{\textcircled{3x}}{\sin 3x} \cdot \frac{\textcircled{3x}}{\sin 3x}$ so $\lim_{x \rightarrow 0} \frac{x^2}{\sin^2 3x} =$
(multiply by $\frac{9}{9}$)

$$\lim_{x \rightarrow 0} \frac{1}{9} \cdot \frac{1}{\lim_{x \rightarrow 0} \left(\frac{\sin 3x}{3x} \right)} \cdot \frac{1}{\lim_{x \rightarrow 0} \left(\frac{\sin 3x}{3x} \right)} = \frac{1}{9} \cdot \frac{1}{1} \cdot \frac{1}{1} = \textcircled{\frac{1}{9}}$$

⑥ Hint: $1 - \cos^2 2x = \sin^2 2x$ by pythagorean identity, then see problem #5. Also try to do this problem by factoring $1 - \cos^2 2x$.

⑦ $\frac{1 - \cos x}{\sin x} = \frac{(1 - \cos x)(1 + \cos x)}{\sin x \cdot (1 + \cos x)} = \frac{1 - \cos^2 x}{\sin x (1 + \cos x)} = \frac{\cancel{\sin x}^{\sin x}}{\cancel{\sin x} (1 + \cos x)} =$

$\frac{\sin x}{1 + \cos x}$ By plug-n-pray: $\lim_{x \rightarrow 0} \frac{\sin x}{1 + \cos x} = \frac{0}{1 + 1} = \frac{0}{2} = 0$

⑧ $\frac{x^2 + 3x}{\sin x} = \frac{x^2}{\sin x} + \frac{3x}{\sin x} = \frac{x}{1} \cdot \left(\frac{x}{\sin x} \right) + \frac{3}{1} \cdot \left(\frac{x}{\sin x} \right)$

so $\lim_{x \rightarrow 0} \frac{x^2 + 3x}{\sin x} = \lim_{x \rightarrow 0} x \cdot \lim_{x \rightarrow 0} \left(\frac{x}{\sin x} \right) + 3 \cdot \lim_{x \rightarrow 0} \left(\frac{x}{\sin x} \right)$
 $0 \cdot 1 + 3 \cdot 1 = \textcircled{3}$

Advanced Calculus Problems And Answers

Robert E. Moyer



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100+1 Problems in Advanced Calculus Paolo Toni,Pier Domenico Lamberti,Giacomo Drago,2022-03-08 This book convenes a collection of carefully selected problems in mathematical analysis crafted to achieve maximum synergy between analytic geometry and algebra and favoring mathematical creativity in contrast to mere repetitive

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Partial Differential Equations in Engineering Problems Kenneth S. Miller, 2020-03-18 Concise text derives common partial differential equations discussing and applying techniques of Fourier analysis Also covers Legendre Bessel and Mathieu functions and general structure of differential operators 1953 edition

The Thirteen Books of the Elements Euclid, 2012-08-15 Volume 2 of 3 volume set containing complete English text of all 13 books of the Elements plus critical analysis of each definition postulate and proposition Vol 2 includes Books 3 9 Circles relationships rectilinear figures

Schaum's Outline of Trigonometry Robert E. Moyer, 1998-12-21 Updated to match the emphasis in today s courses this clear study guide focuses entirely on plane trigonometry It summarizes the geometry properties and theorems that prove helpful for solving trigonometry problems Also where solving problems requires knowledge of algebra the algebraic processes and the basic trigonometric relations are explained carefully Hundreds of problems solved step by step speed comprehension make important points memorable and teach problem solving skills Many additional problems with answers help reinforce learning and let students gauge their progress as they go

Introduction to Difference Equations Samuel Goldberg, 1986-01-01 Exceptionally clear exposition of an important mathematical discipline and its applications to sociology economics and psychology Topics include calculus of finite differences difference equations matrix methods and more 1958 edition

The British National Bibliography Cumulated Subject Catalogue , 1960

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