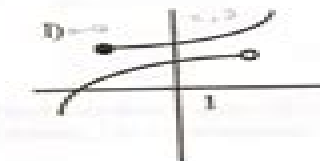
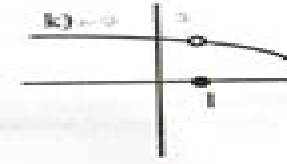
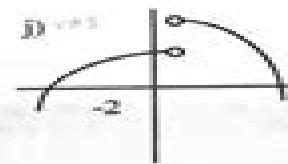
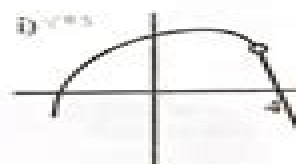
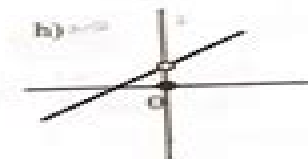
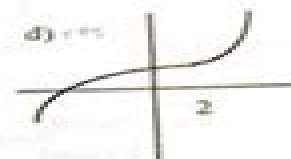
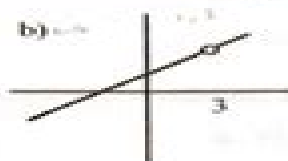
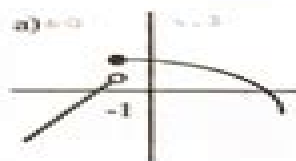


Continuity and Differentiability - Homework

1. In the following graphs determine if the function $f(x)$ is continuous at the marked value of c , and if not, determine for which of the 3 rules of continuity the function fails.



2. Find the value of x where the function is discontinuous.

a. $f(x) = x^3 + 3^x$

$x = -8$

b. $f(x) = \frac{5}{x^2 - 81}$

$x = 9, -9$

c. $f(x) = \frac{x^2 + 2x - 24}{x^2 - 36}$

$x = 6, -6$

d. $f(x) = \tan x$

$x = \frac{\pi}{2} + n\pi$

$n \in \mathbb{Z}$

3. Find whether the function is continuous at the value where the rule for the function changes.

a. $f(x) = \begin{cases} 8 - x^2, & x < 2 \\ 6 - x, & x \geq 2 \end{cases}$

$c = 2$ continuous

b. $f(x) = \begin{cases} 4 - x^2, & x < 1 \\ 1 + x, & x \geq 1 \end{cases}$

$c = 1$ continuous

c. $f(x) = \begin{cases} 2^x, & x < 3 \\ 10 - x, & x \geq 3 \end{cases}$

$c = 3$ continuous

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Using Writing to Teach Mathematics Andrew Sterrett, 1990 This collection of essays is an outgrowth of the widespread interest shown in sessions of contributed papers on writing given at the 1988 and 1989 Annual Meetings of the MAA Many of the 30 authors of the essays included in this volume participated in those sessions and each has considerable experience in requiring students to write about mathematics

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Calculus from Graphical, Numerical, and Symbolic Points of View Arnold Ostebee, Paul Zorn, 2002 This flexible series offers instructors a true balance of traditional and conceptual approaches to calculus for math science and engineering majors The Second Edition continues to focus on conceptual understanding as its primary goal and combines a variety of approaches and viewpoints to help students achieve this understanding In addition to providing a readable tone that appeals to students and supports independent work the authors present a balance of traditional theorems and proofs along with conceptually driven examples and exercises featuring graphical numerical and symbolic points of view In addition the text offers a wealth of diverse well graded exercises including some more challenging problems

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Comprehensive Dissertation Index, 1861-1972: Mathematics and statistics Xerox University Microfilms, 1973

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