

**EXAM I**  
**CALCULUS AB**  
**SECTION I PART A**  
**Time—55 minutes**  
**Number of questions—28**

**A CALCULATOR MAY NOT BE USED ON THIS PART OF THE EXAMINATION**

**Directions:** Solve each of the following problems. After examining the form of the choices, decide which is the best of the choices given. Do not spend too much time on any one problem.

**In this test:**

- (1) Unless otherwise specified, the domain of a function  $f$  is assumed to be the set of all real numbers  $x$  for which  $f(x)$  is a real number.
- (2) The inverse of a trigonometric function  $f$  may be indicated using the inverse function notation  $f^{-1}$  or with the prefix "arc" (e.g.,  $\sin^{-1}x = \arcsin x$ ).

1. If the line tangent to the graph of the function  $f$  at the point  $(2, 8)$  passes through the point  $(-1, -1)$  then  $f'(2)$  is

(A) 1                      (B) 2                      (C) 3                      (D) 7                      (E) undefined

2.  $\int_0^{\pi/4} \cos(2x) \, dx =$

(A) 0                      (B)  $\frac{1}{2}$                       (C)  $\frac{\sqrt{2}}{2}$                       (D)  $\frac{\sqrt{3}}{2}$                       (E)  $\frac{\pi}{2}$

3. If the graph of the continuous function  $f$  contains the origin and  $\lim_{h \rightarrow 0} \frac{f(x+h) - f(x)}{h} = \frac{1}{\sqrt{x}}$ , for  $x > 0$ , then  $f(9) =$

(A) 0                      (B)  $\frac{1}{2}$                       (C) 3                      (D) 6                      (E) 9

4. On which of the following intervals is the graph of the curve  $y = \frac{x}{x^2 + 2}$  concave up?

I.  $x < 0$                       II.  $0 < x < 2$                       III.  $x > 2$

(A) I only                      (B) II only                      (C) III only                      (D) I and II only                      (E) II and III only

# 2007 Pearson Education Chapter 10 Calculus Test

**Teresa M. McDevitt, Jeanne Ellis  
Ormrod, Glenn Cupit, Margaret  
Chandler, Valarie Aloa**

## 2007 Pearson Education Chapter 10 Calculus Test:

*Preparing for the Calculus AP Exam with Calculus* John Brunsting, Ray Barton, John Diehl, Greg Hill, Karyl Tyler, 2005-03  
This unique review workbook for the AP Calculus Exam is tied directly to two best selling textbooks *Calculus Graphical Numerical Algebraic* by Finney Demana Waits and Kennedy *Precalculus Graphical Numerical Algebraic* by Demana Waits Foley and Kennedy AP is a registered trademark of the College Board which was not involved in the production of and does not endorse this product

**Resources for Preparing Middle School Mathematics Teachers** Cheryl Beaver, Laurie J. Burton, Maria Gueorguieva Gargova Fung, Klay Kruczek, 2013 Cheryl Beaver Laurie Burton Maria Fung Klay Kruczek editors  
Cover Resources in Education, 1989 *Handbook of Psychology, Educational Psychology* Irving B. Weiner, William M. Reynolds, Gloria E. Miller, 2012-10-16 Psychology is of interest to academics from many fields as well as to the thousands of academic and clinical psychologists and general public who can't help but be interested in learning more about why humans think and behave as they do This award winning twelve volume reference covers every aspect of the ever fascinating discipline of psychology and represents the most current knowledge in the field This ten year revision now covers discoveries based in neuroscience clinical psychology's new interest in evidence based practice and mindfulness and new findings in social developmental and forensic psychology

Forthcoming Books Rose Arny, 2003 **Left Behind** Edward P. St. John, Victoria J. Milazzo Bigelow, Kim Callahan Lijana, Johanna C. Massé, 2015-11-30 Urban schools are falling short of preparing students for college In *Left Behind* a team of education scholars led by Edward P St John argues that American cities have been engaged for the past three decades in a radical but failing effort to transform general and vocational high schools into college preparatory institutions By examining the educational reforms in four urban charter schools across the United States and four public high schools in New York City *Left Behind* reveals how educators contend with the challenge of developing new courses while providing social support for students to build college going cultures The research shows that district schools struggle to comply with standards that leave little room to develop advanced thematic curricula and that charter schools have not succeeded in substantially raising student test scores Many students who start in rigorous charter schools transfer back to public schools while both public and charter schools struggle to prepare their students for college level work *Left Behind* provides crucial insights into the troubling trajectory of public policy while offering teachers and administrators effective strategies for overcoming barriers

*Child Development and Education* Teresa M. McDevitt, Jeanne Ellis Ormrod, Glenn Cupit, Margaret Chandler, Valarie Aloa, 2012-08-21 *Child Development and Education* is a comprehensive child development text written especially for educators It helps students to translate developmental theories into practical implications for teaching and caring for youngsters with diverse backgrounds characteristics and needs The text draws from innumerable theoretical concepts research studies conducted around the world and the authors own experiences as parents teachers psychologists and researchers to identify strategies for promoting young people's physical cognitive and social

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