

Gateway Test 6A
DifferentiationName: _____ Date: _____
Class: _____ Section: _____

In problems 1–10, find the derivative and simplify the expression. Write the answer in lowest negative exponent form.

1. $x e^x$

2. $\frac{d}{dx} \frac{x}{x+1}$

3. $\sqrt{2x+1}$

4. $\sin^2 2x$

5. $\sin(\ln \frac{x}{2})$

6. $x^{e^{-x^2}}$

7. $\tan\left(\frac{\pi x}{x+1}\right)$

8. $x^2 \cos(2x+1)$

9. $y^2 = \frac{y}{x} + \sqrt{y} - xy - yx^2$

10. Find $\frac{dy}{dx}$ if $y^2 + xy = 2$.

Gateway Test 4a Differentiation Solutions

Julia Schneider

Gateway Test 4a Differentiation Solutions:

Instructor's Resource Guide for Calculus Ann R. Kraus,2003
Encyclopedia ,1986

ACM SIGPLAN Notices ,2003-07

The Software

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