Math 1A Calculus Fall, 2004
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Quiz 4 Solution–Version B

Differentiate these functions:

(a) $y = \sqrt{\sin x + \tan x}$

$y' = \frac{1}{2}(\sin x + \tan x)^{-1/2}(\cos x + \sec^2 x)$

(b) $y = \cos(\cos 5x)$

$y' = 5\sin(\cos 5x)\sin 5x$

(c) $y = (x^2 - 3)^5(x^2 + 2)^8$

$y' = 10x(x^2 - 3)^4(x^2 + 2)^8 + 16x(x^2 - 3)^5(x^2 + 2)^7$