

Date: Sample
Start: Sample
End: Sample
Grader: Sample

Sample
Derivative Gateway Test

Name: Sample
ID #: Sample
Section: Sample
Instructor: Sample

Find the derivative of each of the following functions. You do not need to simplify your answers. You need 6 correct to pass (no partial credit). *Be careful when writing answers, since the graders have firm instructions to mark off for all errors, including missing parentheses! No calculators allowed.*
Time Limit: 20 minutes.

993. $y = (3x + 5)^4 + 5x - \pi$

994. $y = (x^3 + 2)e^x$

995. $y = \frac{\ln x}{x^2}$

996. $y = (\cos t)^{3/2}$

997. $y = 5^{x/3}$

998. $f(x) = \frac{\sqrt{x+5}}{x^{2/3}}$

999. $y = (mx)^3 + px^2 + qx + r$, where m, p, q, r are constants

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993. $r = \sqrt{t^3 + t} - e$

994. $y = (x^2 + 5) \tan(\sqrt{5}x)$

995. $y = \frac{e^{2x-3}}{2x^2 + 7}$

996. $y = \sqrt{\cos(7\pi x)}$

997. $f(t) = 7 \cdot 5^t$

998. $F(s) = \ln(\sin(2s) + 6)$

999. $y = (\ln x)^a$, where a is a nonzero constant

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993. $B(\theta) = \sqrt{\frac{3\theta^2 - 6\theta - \pi}{5}} + \theta$

994. $H = s^2\sqrt{1 - s^a}$, where a is a positive constant

995. $y = \frac{e^{s-3}}{2s^2 + 7}$

996. $f(x) = e^{\sin x}$

997. $f(t) = (\ln 4)4^t$

998. $y = \frac{x^2}{\ln(x + 3)}$

999. $g(z) = \sqrt{(7 - z)^2 + z^2}$