

Score: \_\_\_\_\_ out of 10.

Math 201 - Quiz #3

Name: \_\_\_\_\_

1. Compute the derivative for each of the following. Full simplification is not necessary, but your final answer should not have any derivatives.

(a)  $f(x) = 5x^3 - 2e^x + 10$

answer:

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(b)  $g(t) = 2e + \ln(\pi) - 2$

answer:

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(c)  $y = \frac{\sqrt{x}}{x^2 + 1}$

answer:

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(d)  $y = e^x(\sqrt[3]{x}) + 1$

answer:

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2. Find an equation for the tangent line to  $f(x) = \sqrt{x}$  through the point  $(4, 2)$ .

answer: