Quiz 2

① This is a preview of the published version of the quiz

Started: Nov 3 at 9:14am

Quiz Instructions

Question 1

1 pts

Find the derivative of the function $f(x) = \frac{1}{\sqrt{x}} - \frac{1}{\sqrt[5]{x^3}}$

$$igcirc$$
 $rac{2}{5x^{4/5}}+rac{1}{2x^{3/2}}$

$$\bigcirc \; rac{2}{x^{3/5}} + rac{1}{2x^{1/2}}$$

$$igcirc rac{3}{5x^{8/5}} - rac{1}{2x^{3/2}}$$

$$igcirc$$
 $rac{3}{5x^{8/5}} - rac{1}{3x^{2/3}}$

Question 2

1 pts

Find f' in terms of f and g' for $f(x)=x^2g(x^2)$ with $x\neq 0$.

$$\bigcirc \ 2xg(x^2) + 2x^3g'(x^2)$$

$$\bigcirc \; rac{2}{x}f(x) + 2x^3g'(x^2)$$

$$\bigcirc \ g'(x^2) + 2x^2 f(x^2)$$

$$\bigcirc xf(x) + 2x^3g'(x)$$

Question 3

Find the equation of the tangent line to the curve $x^2 + 4xy + y^2 = 13$ at the given point (2,1).

$$\bigcirc \ 2y = -x + rac{1}{3}$$

$$\bigcirc \ y = -\frac{4}{5}x + \frac{13}{5}$$

$$\bigcirc y = -3x - \frac{1}{13}$$

$$\bigcirc \ y = -3x^2 + 1$$

Question 4

1 pts

Solve the equation for x: $e^{e^x}=2$

- $\bigcirc \ln(-\ln(1/2))$
- $\bigcirc [\ln(2)]^2$
- $\bigcirc e^2$
- $\bigcirc \ln(\ln(4))$

Question 5

1 pts

Solve the equation for x: $\ln(x+1) + \ln(x-1) = 1$

- $\bigcirc 0$
- $\bigcirc \sqrt[3]{2+e}$
- $\bigcirc 2 + e$
- $\bigcirc \sqrt{1+e}$

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Quiz saved at 9:15am

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