Make-up Quiz 2

(!) This is a preview of the published version of the quiz

Started: Nov 3 at 9:17am

Quiz Instructions

Question 1

1 pts

Find the derivative of the function $f(x) = rac{1}{\sqrt{x}} - rac{1}{\sqrt[7]{x^5}}$

$$igcirc rac{5}{7x^{12/7}} - rac{1}{2x^{3/2}}$$

$$\bigcirc \ -rac{5}{7x^{12/7}} + rac{1}{2x^{3/2}}$$

$$\bigcirc \; rac{12}{7x^{12/7}} + rac{1}{2x^{3/2}}$$

$$\bigcirc \; rac{1}{2x^{12/7}} - rac{5}{2x^{3/2}}$$

Question 2

1 pts

Find f' in terms of f and g' for $f(x)=x^4g(x^4)$ with $x\neq 0$.

$$\bigcirc \ 4xf(x) + 4x^7g'(x^4)$$

$$\bigcirc \ 4x^3g(x)+4x^2g'(x^4)$$

$$\bigcirc \ 2f(x) + 4x^7g'(x^4)$$

$$\bigcirc \ rac{4}{x}f(x) + 4x^7g'(x^4)$$

Question 3

1 pts

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

$$\bigcirc \ 2y=-rac{1}{2}x+rac{11}{2}$$

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

$$\bigcirc \ y = -\frac{3}{4}x + \frac{1}{4}$$

$$\bigcirc \ y = \frac{3}{4}x - \frac{13}{4}$$

Question 4 1 pts

Solve the equation for x: $e^{2e^x} = 4$.

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

Question 5

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

- $\bigcirc \sqrt[4]{2+e}$
- $\bigcirc 1 + e$
- $\bigcirc 0$
- $\bigcirc \sqrt{e+1}$

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Quiz saved at 9:18am

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