

Directions: Answer each question below by providing enough work to defend your answer. Partial Credit will be given depending on the amount of work given. NO CALCULATORS WILL BE USED ON THIS TEST.

1. (10pts) Find the equation of the tangent line for the curve at the given point.

$$x^2 + xy + y^2 = 7 \quad (2, 1)$$

$$2x + x\left(\frac{dy}{dx}\right) + y(1) + 2y\left(\frac{dy}{dx}\right) = 0$$

$$x\left(\frac{dy}{dx}\right) + 2y\left(\frac{dy}{dx}\right) = -2x - y$$

$$\frac{\frac{dy}{dx}(x + 2y)}{x + 2y} = \frac{-2x - y}{x + 2y}$$

$$\frac{dy}{dx} = \frac{-2x - y}{x + 2y} \stackrel{\text{plug in}}{=} \frac{-2(2) - 1}{(2) + 2(1)} = \frac{-4 - 1}{2 + 2} = \frac{-5}{4}$$

$$y - 1 = \frac{-5}{4}(x - 2)$$

$$y - 1 = \frac{-5}{4}x + \frac{5}{2} + 1 = \boxed{y = -\frac{5}{4}x + \frac{7}{2}}$$

2. (10pts) Find the derivative of the following function. Simplify where possible.

$$f(x) = \ln(4x^3 - e^{3x} - 2)$$

$$f'(x) = \frac{1}{4x^3 - e^{3x} - 2} (12x^2 - 3e^{3x})$$

$$f'(x) = \frac{12x^2 - 3e^{3x}}{4x^3 - e^{3x} - 2}$$

$$\boxed{f'(x) = \frac{3(4x^2 - e^{3x})}{4x^3 - e^{3x} - 2}}$$

Mississippi State Calculus Syllabus

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Mississippi State Calculus Syllabus:

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