

Name KEY

Row \_\_\_\_\_

Read each question carefully. You must SHOW ALL WORK for full credit. Put all work and answers on this paper. Please raise your hand if you need more paper. No graphing calculators and no calculators with symbolic computation capability. Good luck.

1. (2 points) Turn this test over. Write your name and row number on the back.
2. (10 points) Find an equation of the tangent line to the function  $y = \tan^{-1}(x^2)$  at the point  $(1, \frac{\pi}{4})$ .

$$y = \tan^{-1}(x^2)$$

$$y = \tan^{-1}(u) \quad u = x^2$$

$$\frac{dy}{dx} = \frac{dy}{du} \cdot \frac{du}{dx}$$

$$\frac{dy}{dx} = \frac{1}{1+u^2} \cdot 2x$$

$$\frac{dy}{dx} = \frac{2x}{1+x^4}$$

$$\text{at } x=1 \quad \frac{dy}{dx} = \frac{2(1)}{1+1^4} = \frac{2}{2} = 1$$

$$y - y_1 = m(x - x_1)$$

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

$$y - \frac{\pi}{4} = x - 1$$

3. (12 points) Use logarithmic differentiation to find the derivative of each of the following.

(a)  $y = x^{\ln(x)}$

(b)  $y = \frac{xe^{x^3}}{\sqrt{x^2+1}}$  Do NOT use quotient rule.

②  $y = x^{\ln x}$

$$\ln y = \ln x^{\ln x}$$

$$\ln y = \ln x \cdot \ln x$$

$$\ln y = (\ln x)^2$$

$$\frac{y'}{y} = 2(\ln x)' \cdot \frac{1}{x}$$

$$\frac{y'}{y} = \frac{2 \ln x}{x}$$

$$y' = y \cdot \frac{2 \ln x}{x}$$

$$y' = x^{\ln x} \cdot \frac{2 \ln x}{x}$$

②  $y = \frac{xe^{x^3}}{\sqrt{x^2+1}} \Rightarrow \ln y = \ln \left( \frac{xe^{x^3}}{\sqrt{x^2+1}} \right)$

$$\ln y = \ln(xe^{x^3}) - \ln(\sqrt{x^2+1})$$

$$\ln y = \ln x + \ln e^{x^3} - \ln(\sqrt{x^2+1})$$

$$\ln y = \ln x + x^3 - \frac{1}{2} \ln(x^2+1)$$

$$\frac{y'}{y} = \frac{1}{x} + 3x^2 - \frac{1}{2} \left( \frac{1}{x^2+1} \cdot 2x \right)$$

$$\frac{y'}{y} = \frac{1}{x} + 3x^2 - \frac{x}{x^2+1}$$

$$y' = y \left( \frac{1}{x} + 3x^2 - \frac{x}{x^2+1} \right)$$

$$y' = \frac{xe^{x^3}}{\sqrt{x^2+1}} \left( \frac{1}{x} + 3x^2 - \frac{x}{x^2+1} \right)$$

# Solutions Test Answers Sheet

**S Marginson**



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