①
$$f(x) = e^{2x}$$
 $f'(x) = e^{2x}$
 $f''(x) = e^{2x}$
 f'

nim sin(h) = 1

3)
$$f(x,y) = x^2 + y^2 = 25$$

$$x^2 + y^2 = 25$$

$$y^2 = [25 - x^2]$$

$$y = (25 - x^2)^{1/2}$$

$$y' = \frac{1}{2}(25 - x^2)^{1/2}.(-2x)$$

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Since we want to see the set of the explicit of th

$$\begin{array}{lll}
\underbrace{(1)}_{0} \times \frac{3}{4} \times - \frac{1}{3} \cdot \frac{2}{4} \times \frac{1}{3} \cdot \frac$$

6)
$$\int 2x \cdot \sqrt{1+x^2} \, dx$$

$$u = 1+x^2$$

$$du = 2x \, dx$$

$$dx = \frac{dy}{2x}$$

$$= \int 2x \cdot \sqrt{y} \, dy$$

$$= \int \sqrt{y^2 + 1}$$

$$= \int \sqrt{y^2 + 1}$$

$$= \frac{\sqrt{3/2}}{3} = \frac{2}{3} \cdot \sqrt{y^2 + 1}$$