$$\int_{A}^{1} f(x) dx dx dy dy$$

$$\int_{A}^{1} f(x) dx dx dy$$

$$\int_{A}^{1} f(x) = C \Rightarrow f(x) = 0$$

$$\int_{A}^{1} f(x) = \int_{A}^{1} f(x+h) - \int_{A}^{1} f(x)$$

$$= \int_{A}^{1} f(x) = \int_{A}^{1} f(x) = 0$$

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$$\int_{A}^{1} f(x) = \int_{A}^{1} f(x) = \int_{A}^{$$

$$\begin{aligned}
&\mathcal{E}_{X} \quad \mathcal{F}_{A} \cup \text{ alexivative } \quad \chi^{3} \\
&(\chi^{3})' = 3 \chi^{2} \\
&\mathcal{E}_{X} \quad \mathcal{F}_{A} = 2 \chi^{2} \\
&\mathcal{F}_{A} = 3 \chi^{2} \\
&\mathcal{E}_{X} \quad \mathcal{F}_{A} = 2 \chi^{2} \\
&\mathcal{E}_{X} \quad \mathcal{F}_{A} = 2 \chi^{2} \\
&\mathcal{F}_{A} = 2 \chi^{2} \\
&$$

$$J = \sqrt{x'} = x'^{2}$$

$$J = \frac{1}{a} x^{-1/2}$$

$$= \frac{1}{a\sqrt{x'}}$$

$$(Cx^n)' = nCx^{n-1}$$

$$\frac{dy}{dx} = \frac{4(8)x^{24-1}}{32x^{3}}$$

$$y = -\frac{3}{4} \times \frac{12}{11}$$

$$y = x^{3} + \frac{4}{3}x^{2} - 5x + 1$$

$$y' = 3x^{2} + \frac{5}{3}x - 5$$

$$\frac{x^{3} - 4x}{\sqrt{x'}}$$

$$= \frac{x^{3} - 4x}{\sqrt{x'}}$$

$$= \frac{x^{3} - 4x}{x'^{2}}$$

$$= \frac{x^{3} - 4x}{x'^{2}}$$

$$= x^{5/2} - 4x$$

$$y'' = \frac{d}{dx} \left(\frac{dy}{dx} \right) = \frac{d^{2}y}{dx^{2}}$$

$$y'' = \frac{d}{dx} \left(\frac{dy}{dx} \right) = \frac{d^{2}y}{dx^{2}}$$

$$y'' = 3x^{2} - 6x$$

$$y'' = 6x - 6$$

$$y''' = 6$$

$$y''' = 0$$

$$f(x) = a_{1} x^{2} + a_{1-1} x^{2-1} + \cdots + a_{1} x + a_{0}$$

$$f(x) = n! \ a_{1}$$

$$y = x^{2} - 3x^{2} + 2$$

$$y''' = 3! = 6$$

$$y'''' = 0$$

$$y''' = 3 = 0$$

2.3 Froduct.

$$(u \, N)' = u' \, N + u \, N'$$

$$U = 2 \, X + 3 \qquad N' = 3 \, X^{2}$$

$$u' = 2 \qquad N' = 6 \, X$$

$$u' = 2 \qquad N' = 6 \, X$$

$$u' = 2 \qquad N' = 6 \, X$$

$$f'(x) = 2 \quad (3 \, X^{2}) + 6 \, X \quad (3 \, X + 3)$$

$$= 6 \, X^{2} + 10 \, X^{2} + 10 \, X$$

$$= 18 \, X^{2} + 10 \, X$$

$$u = (u \, N)' = u' \, N + N' \, U$$

$$f'(x) = 2 \quad (3 \, X^{2}) + 6 \, X \quad (2 \, X + 3)$$

$$= 6 \, X^{2} + 10 \, X^{2} + 10 \, X$$

$$= 10 \, X^{2} + 10 \, X$$

15 x 4 - 24 x 3 + 42 x 2 + 2 x - 2

$$\left(\frac{U}{N}\right)' = \frac{u'N - N'u}{N^2}$$

$$\int (x) = \frac{2x - 1}{ux + 3} \qquad \int (x) = \frac{10}{(ux + 3)^2}$$

$$\left(\frac{U}{u} = \frac{8x + 6 - (8x - u)}{(ux + 3)^2}\right)$$

$$= \frac{8x + 6 - 8x + 4}{(4x + 3)^2}$$

$$= \frac{10}{(ux + 3)^2}$$

$$y' = \frac{x-4}{5x-2}$$

$$y' = \frac{15}{(5x-2)^2}$$

$$(ad-be) x^2 + 2 (af-de)x + (bf-de)$$

$$\frac{(3x-2)^{2}}{(ax^{2}+6x+c)} = \frac{(ad-bq)x^{2}+2(af-dc)x+(bf-ce)}{(dx^{2}+cx+f)^{2}}$$

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

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

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

$$y' = \frac{18x^2 - 12x + 6x}{(5x^2 - 2x - 1)^2}$$

3-8

$$432 \quad y = \frac{3x+4}{2x+1}$$

$$y' = \frac{-5}{(\partial x + i)^2}$$

$$\frac{36}{3x-2} \left(\frac{3x}{3x-2} \right)' = \frac{-6}{(3x-2)^2} \qquad \frac{3}{3} - 2$$

$$y' = \frac{-36 \times (5 \times ^2 - 2)^2}{(5 \times ^2 - 2)^2}$$

$$y' = \frac{3x^{2} - 4}{2x^{2} - 1}$$

$$y'' = \frac{10x}{(2x^{2} - 1)^{2}}$$

$$42 \quad y = \frac{3x^{2} + 4}{2x^{2} + 1}$$

$$y'' = \frac{-10x}{(2x^{2} + 1)^{2}}$$

$$y'' = \frac{3x^{4} - 3}{2x^{4} + 1}$$

$$4 \quad | 2 - 3 |$$

$$y'' = \frac{32x^{3}}{(2x^{4} + 1)^{2}}$$

$$\frac{4420}{x^4 - 3x^2 + 2x + 1}$$

$$u = x^9 + x^8 + 4x^5 - 7x$$

$$u = x^9 + x^8 + 4x^5 - 7x$$

$$u' = 9x^6 + 8x^7 + 20x^4 - 7$$

$$y' = 4x^3 + 6x + 2$$

$$y'' = x'' + x^4 + 20x^4 - 7$$

$$y' = 4x^3 + 6x + 2$$

$$y'' = 4x^4 - 2x^2 - 2$$

$$y'' = 4x^3 + 6x^2 - 36x + 32x^5$$

$$y'' = 4x^4 - 2x^2 - 2$$

$$y'' = 4x^4 - 2x^4 - 2$$

$$f(x) = (1x^{7} + 3)(x^{3} - 5x) = (x^{12} + 3)(x^{3} - 5x)$$

$$= x^{3/2} + 3x^{3} - 15x$$

$$f'(x) = \frac{7}{2}x^{3/2} - \frac{15}{2}x^{3/2} + 9x^{2} - 15$$

$$\int_{-\infty}^{\infty} (x) = n/a_n$$