megliett, wit en Mil  $\Delta x_i = x_i - x_{\overline{i}}$ fi = min f(x)

5 = Z fi X; gourne cynne rug

x\_L f x \le x \le x\_i

= z fi

Dapoy  $f_i = \max \{ f(x) \overline{\sigma} = \overline{Z} f_i \Delta x_i \text{ represent a suppose } X_i - Ex \leq x_i$   $f_i = \max \{ f(x) \overline{\sigma} = \overline{Z} f_i \Delta x_i \text{ represent a suppose } X_i - Ex \leq x_i$   $f_i = \sum_{i=0}^{\infty} f(x) \overline{\sigma} = \overline{Z} f_i \Delta x_i$   $f_i = \sum_{i=0}^{\infty} f(x) \overline{\sigma} = \overline{Z} f_i \Delta x_i$   $f_i = \sum_{i=0}^{\infty} f(x) \overline{\sigma} = \overline{Z} f_i \Delta x_i$   $f_i = \sum_{i=0}^{\infty} f(x) \overline{\sigma} = \overline{Z} f_i \Delta x_i$   $f_i = \sum_{i=0}^{\infty} f(x) \overline{\sigma} = \overline{Z} f_i \Delta x_i$   $f_i = \sum_{i=0}^{\infty} f(x) \overline{\sigma} = \overline{Z} f_i \Delta x_i$  $\lim_{\Delta x_i \to 0} \int dx_i = \int_{\alpha}^{-1} dx_i$ M=const  $\int Mdx = M(b-a)$  M=1  $\int 1dx = (b-a)=$  $\int_{a}^{a} f(x) dx = -\int_{c}^{a} f(x) dx , \quad \int_{a}^{b} [Af_{1}(x) + Bf_{2}(x)] dx = A \int_{a}^{b} f_{1}(x) dx + B \int_{a}^{b} f_{2}(x) dx$ 

 $f(x) = \varphi(x)$   $f(x) dx = \begin{cases} \varphi(x) dx; | \int_{a}^{b} f(x) dx | \leq \int_{a}^{b} |f(x)| dx \end{cases}$   $q \leq x \leq b$  $\int_{a}^{b} f(x)dx = \int_{a}^{c} f$  $\begin{cases}
f(x)dx & F(x) = f(u)du \\
a & F'(x) = f(x) = f(x) \\
a & f(x)dx = f(x)du + C
\end{cases}$ 

DOPMING HA HOTOM - Nain Smy  $\left(\int_{-\infty}^{\infty} f(x) dx - F(6) - F(0) - F(x)\right)^{6}$ F'(x) = f(x) $\int f(x) dx = \int f(\varphi(t)) \varphi'(t) dt$  $x = \varphi(t) \varphi(t)$   $A = \varphi(t) \varphi(t)$   $A = \varphi(t) \varphi(t)$   $A = \varphi(t) \varphi(t)$   $A = \varphi(t) \varphi(t)$ populua 3a unaemprep. no  $\int_{a}^{b} u(x)dv(x) = u(x)v(x) \Big|_{a}^{b} - \int_{a}^{b} v(x) du(x)$   $\int_{a}^{b} \int_{a}^{b} \int_{a}^{$ 

$$\frac{yy=2-x^2}{y}=x^{\frac{3}{3}}$$

 $2-x^2=x^2$ 

y=2-x2 Mun. myero ma o Su, orpan. y=2 or Tozu Kpuby

$$y = 3c^{\frac{3}{3}}$$

$$y = 3c^{\frac{3}{3}}$$

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

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

$$y' = \sqrt{x^{2$$

$$\frac{(z-x^2)^3 = x^3}{-x^6 + 6x^9 - 13x^2 + 8 = 0} = x^2 = u$$

$$u^3 - 6u^2 + 13u - 8 = 0$$

$$+1, 2, 4, 8 = 1$$

$$1 - 6 + 13 - 8 = 0 = 0$$

$$1 - 6 + 13 - 8 = 0 = 0$$

$$5 - 2 \left( \frac{2 - x^2 - x^2}{3} \right) dx = 2 \left( \frac{2x - x^3}{3} - \frac{x^3 + 1}{3} \right) \left( \frac{1}{3} - \frac{1}{3} \right)$$

$$= 2 \left( \frac{2 - \frac{1}{3} - \frac{3}{3}}{3} \right) = 2 \left( \frac{30 - 5 - 9}{15} \right) = \frac{32}{15}$$

$$4 \left( \frac{1}{3} - \frac{1}{3} - \frac{1}{3} \right) = 2 \left( \frac{30 - 5 - 9}{15} \right) = \frac{32}{15}$$

$$4 \left( \frac{1}{3} - \frac{1}{3} - \frac{1}{3} \right) = 2 \left( \frac{30 - 5 - 9}{15} \right) = \frac{32}{15}$$

$$= 2ial\left(\int_{0}^{\frac{\pi}{2}} dt + \frac{1}{2}\int_{0}^{\frac{\pi}{2}} cos2t dt\right) = 2ab\left(t + \frac{\sin 2t}{2}\right) = 2ab\left(\frac{\pi}{2} + \frac{0}{2} - 0 - 0\right) = \frac{3}{2}$$

$$= \pi ab \quad a = 6$$

$$= \frac{\sin x - \omega \cdot sx}{2 \sin x \cdot t + \omega \cdot sx} \quad x \cdot \frac{0}{13}$$

$$= \frac{13}{2 \sin x \cdot t + \omega \cdot sx} \quad x \cdot \frac{0}{13} = \frac{13}{14\pi t} \quad \frac{13}{14t^2} = \frac{t - 1}{2t + 1(1 + t^2)} dt$$

$$= \frac{1}{2} \frac{x}{2} + \frac{1}{2} \frac{t}{2} \frac{t}{2} + \frac{1}{2} \frac{t}{2} \frac{t}{2} + \frac{1}{2} \frac{t}{2} \frac{t}{2} + \frac{1}{2} \frac{t}{2} \frac{t}{2} \frac{t}{2} + \frac{1}{2} \frac{t}{2} \frac{t}{2}$$

$$\frac{t-1}{2t+1} = \frac{A}{2t+1} + \frac{Bt+C}{t+1}$$

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$$\frac{t-1}{2t+1} = \frac{A}{2t+1} + \frac{Bt+C}{t+1} + \frac{Bt+C}{t+1} = \frac{A}{2t+1} + \frac{A}{2t+1} = \frac{A}{2t+1} + \frac{A}{2$$

(1) 
$$\int_{0}^{\frac{\pi}{3}} \frac{\sin x - \cos x}{2 \sin x + \cos x} dx$$
(2) 
$$\int_{0}^{\frac{\pi}{3}} \frac{dx}{x^{9} + x^{2} + 1}$$
(3) 
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$$\int_{0}^{\frac{\pi}{3}} \frac{dx}{x^{9} + x^{9} + 1}$$
(7) 
$$\int_{0}^{\frac{\pi}{3}} \frac{dx}{x^{9} + x^{9} + 1}$$
(8) 
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(9) 
$$\int_{0}^{\frac{\pi}{3}} \frac{dx}{x^{9} + x^{9} + 1}$$
(1) 
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(5) 
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