

$$4 \left[ \int \overbrace{v^2 (v-1)}^{v^2 - v} dv \right] = 4 \left[ \int (v^2 - v) dv \right]$$

$$4 \cdot \left[ \int v^4 dv - \int v^2 dv \right] \left( w^4 = \frac{a^{4+1}}{4+1} \right)$$

$$4 \cdot \left[ \frac{v^5}{5} - \frac{v^3}{3} \right] + C \quad \left( v^2 = 1 + \sqrt{x} \right)$$

$$\int \frac{\ln(2x)}{x \ln(4x)} dx$$

$$\int \sqrt{1 + \sqrt{x}} \, dx$$

$$\int \frac{\ln(2x)}{x \ln(4x)} dx$$

$$\int \frac{\ln(2) + \ln(x)}{x \cdot \ln(4) + \ln(x)} dx$$

$$U = \ln(x)$$

$$dU = \frac{1}{x} dx$$

$$\int \frac{\ln(2) + \ln(x)}{\ln(4) + \ln(x)} \cdot \frac{1}{x} dx$$

$$\int \frac{h(2) + u}{h(4) + u} du$$

$$\int \frac{\ln(z)}{\ln(4)+u} du + \int \frac{u}{\ln(4)+u} du$$

$$\frac{w = \ln(4) + u}{dw = du} \quad w - \ln(4) = u$$

$$\int \frac{h(x)}{w} dw + \int \frac{(w-h(x))}{w} dw \quad \left\{ \frac{1}{x} dx = h(x) \right\}$$

$$\ln(2) \left( \int \frac{1}{u} du \right) + \left( \frac{w \ln(4)}{u} \right) du$$

$$\ln(2) \cdot \ln|w| + \int \frac{w}{w} dw = \int \frac{\ln(4)}{w} dw$$

$$\ln(2) \cdot \ln|w| + \int \frac{1}{w} dw - \ln(4) \int \frac{1}{w} dw$$

$$h(2) \cdot h(|w| + w) - h(4) \cdot h(|w| + C$$

$$W = \ln(4) + U$$

$$W = h(y) + l(x) = h(4x)$$

$$\ln(2) \cdot \ln|4x| + \ln(4x) - \ln(4) \cdot \ln|4x| + C$$

$$\int \sqrt{1 + \sqrt{x}} \, dx \quad \sqrt{x^2} = |x|$$

$$V^2 = 1 + \sqrt{x} \Rightarrow V^2 - 1 = \sqrt{x}$$

$$2u \, dv = \frac{1}{2\sqrt{x}} \, dx \quad / \cdot 2$$

$$400V = 2 \cdot \frac{1}{\sqrt{2}} dx$$

$$4 \cup 3 \cup = \frac{1}{\sqrt{x}} dx / \sqrt{x}$$

$$4 \cdot \frac{1}{2} \cdot \sqrt{x} = 2\sqrt{x}$$

$$4u \, du \cdot (u^2 - 1) = dx$$

$$\int \sqrt{v^2} \quad 4000 \cdot (v^2 - 1)$$

$$\int u \cdot 4u \, du \cdot (u^2-1) = \int 4u^2 (u^2-1) \, du$$

$$4 \left[ \int (u^2 - 1) du \right] \Rightarrow 4 \left[ \int (u^2 - u) du \right]$$