

$$F_{1}(A) = ain(2x) = 2 \cdot ain(x) \cdot cocx$$

$$\left(F_{2}(x) = (uox + o sinx)^{2} = uofx + 2 \cdot ainx \cdot cox + aif^{2}x = 2an \cdot cox + 0 \right)$$

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$$Pr. \int (x^{5} \cdot A(x)) dx = \frac{1}{2} \frac{x^{6}}{6} = A(x) \cdot \frac{x^{6}}{6} - \int \frac{1}{4} \cdot \frac{x^{6}}{6} = \frac{1}{36}$$

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$$e^{(x+1)} \cdot (ax^2 - bx + c) \quad (madnum - 6)$$

$$f^{(x)} \cdot b(x) = e^{(x+1)} \cdot (x^2 - (4a) + x(4b + 2a) + 1(4c + b))$$

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$$\int (e^{4x+3} x^{10}) dx = NV$$

$$(b(\varsigma(x))) = b(\varsigma(x)) \cdot \varsigma(x)$$

$$\int (x \cdot \sqrt{x^2 + 1}) dx = \left| \begin{array}{c} m = x^2 \\ m' = 2x dx \end{array} \right|$$

$$\int e^{4x+3} dx = \begin{cases} m = 9x+3 \\ dm = 4dk \end{cases}$$

$$\int \int e^{n} dn = \frac{7}{4}e^{4x+3}$$

$$\int \int \frac{x}{x^{4}} dx = \begin{cases} n = x^{2} \\ dn = 2x dx \end{cases}$$

$$= \int \frac{x}{n+1} \frac{1}{2x} dn = \frac{1}{2} \cdot \int \frac{1}{n^{2}+1} dn = \frac{1}{2} \text{ arty}(n) + C = \frac{1}{2} \text{ arcy}(x^{2}) + C$$