

CIII

$$\frac{2}{5} \frac{2 \times 5}{5} = 2 \times 5$$

$$\frac{2\sqrt{15}-2\sqrt{05}-2\sqrt{1.2\sqrt{0}}}{5}$$

$$\frac{2}{5} \frac{2.1}{5} - \frac{2.0}{5} = \frac{2}{5}$$

$$\frac{1}{2} \cdot \left( \frac{\pi}{5} \operatorname{sen}(x) \right) \sqrt{\frac{\pi}{2}} = \frac{1}{2} \cdot \left( \operatorname{sen}(x) \right) \sqrt{\frac{\pi}{2}} = \frac{1}{2} \cdot \left( \operatorname{sen}(x) \right) \sqrt{\frac{\pi}{2}}$$

$$\frac{1}{2} \left( \cos \left( \sqrt[2]{2} - \cos \left( 0 \right) \right) \cdot z - \frac{1}{2} \left( -1 - 1 \right) z - \frac{1}{2} \left( -2 \right) \right)$$

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(3) 
$$\int_{0}^{\frac{\pi}{2}} \cos(2x) dx$$

$$\int_{0}^{\frac{\pi}{2}} \cos(4x) dx = \frac{1}{2} dx = \frac{1}{2} \int_{0}^{\frac{\pi}{2}} \cos(4x) dx = \frac{1}{2} \int_{0}$$

$$0 \int x e^{2x} dx = x \cdot e^{2x} - \int e^{2x} dy$$

$$= x e^{2x} - 1 \int e^{2x} dx$$

$$\frac{1}{2} = x e^{2x} - e^{2x} + c$$

$$\frac{1}{2} = \frac{1}{2} = \frac{1}{2$$

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3) Sx Con (2x) dx = x Sem (2x) - Ssem (2x) dx  $\times sen(2x) - 1 Sson(2x) dx =$  $\frac{1}{2} \left( -\cos(2x) \right) = \frac{1}{2} \frac{\sin(2x) + (\cos(2x) + (\cos(2x)))}{2}$  $\int_{-\infty}^{\infty} x^{3} \ln (x) dx = u = \ln(x) \qquad \Delta u = \frac{1}{2} x^{3} dx$   $\Delta = \frac{1}{2} x^{4}$ Sln (x) x3 dx + 0 ln (x), x - 5x 1 . 1  $= \frac{1}{4} \ln(x) - \frac{1}{4} \int_{0}^{1} x^{3} dx = \frac{x^{9} \ln(x)}{(1)}$  $\frac{x^4 \ln (x) - x^4}{4} = \frac{4x^4 \ln (x)}{16} = \frac{4}{16}$ (x) ( yh (x - 1) + C)

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