(1) 
$$\iint coo(x+y) dxdy$$

$$= \iint \left( \int coo(x+y) dy \right) dx$$

$$= \int_{0}^{T} \left[ \text{pin} \left( x + y \right) \right] dx$$

$$= \int_{0}^{T} \left[ \text{pin} \left( x + y \right) \right] dx = \left[ -\frac{\cos 2x}{2} + \cos x \right]$$

$$=-\frac{1}{2}\left(\frac{1}{100}2\pi-1\right)+\left(\frac{1}{100}\pi-1\right)=-2$$

$$= \int_{0}^{1} \sqrt{3} \left( \sqrt{3} \right) dy dy dy = \int_{0}^{1} \sqrt{2} \left( \frac{2}{3} \right)^{\frac{3}{2}} \sqrt{2} dx$$

$$= \left( \int_{\pi} \frac{2}{3} \left( x^{\frac{3}{4}} - x^{\frac{3}{3}} \right) dx = \frac{2}{3} \left( x^{\frac{5}{4}} - x^{\frac{7}{2}} \right) dx$$

$$= \frac{2}{3} \left[ \frac{4}{9} x^{\frac{7}{4}} - \frac{2}{9} x^{\frac{7}{2}} \right] = \frac{2}{3} \left( \frac{4}{9} - \frac{2}{9} \right) = \frac{4}{27}$$

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$$y = \sqrt{x}$$

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(5) 
$$\iint_{A} (|x| + |y|) dxdy$$

$$= 4 \iint_{A} (|x| + |y|) dxdy$$

$$= 4 \iint_{A} (|x + y|) dydy dx = 4 \iint_{A} (|x + y|^{2}) dx$$

$$= 4 \iint_{A} (|x + y|) dydy dx = 4 \iint_{A} (|x + y|^{2}) dx$$

$$= 4 \iint_{A} (|x - x|) + \frac{1}{2} (|x - y|^{2}) dx$$

$$= 4 \iint_{A} (|x - x|) + \frac{1}{2} (|x - y|^{2}) dx$$

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$$= 4 \iint_{A} (|x - x|^{2}) + \frac{1}{2} (|x - y|^{2}) dx$$

$$= 4 \iint$$