

$$4\cos f_{x(x)} = \frac{1}{2} \frac{1}{2}, x \in (-1, 1)$$

$$= \frac{1}{2} \cos f_{x(x)} \cdot x^2 dx$$

$$= \int_{-1}^{1} \frac{1}{2} \cdot x^2 dx$$

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

(c)
$$f_{xiy} = P_{r}(Y_{xy}) = P_{r}(X_{xy}^{2}) = P_{r}(J_{y}(X_{xy}^{2}))$$

$$= f_{x}(J_{y}) - f_{x}(-J_{y})$$

$$= f_{x}(J_{y}) - f_{x}(J_{y})$$

$$= f_{x}(J_{y}) - f_{y}(J_{y})$$

$$= f_{y}(J_{y}) - f_{y}(J_{y})$$

$$= f_{y}($$

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