3. 
$$f(a) = \int_{0}^{\infty} \frac{\sin ax}{x(1+x')} dx$$

$$f'(a) = \int_{0}^{\infty} \frac{x(\cos ax)}{x(1+x')} dx = \int_{0}^{\infty} \frac{1}{2} e^{-a}$$

$$f(a) = -\frac{\pi}{2} e^{-a} + C$$

$$C = 0 = 0$$

$$f(a) = -\frac{\pi}{2} e^{-a}$$

$$f(a) = -\frac{\pi}{2} e^{-a}$$

$$f(a) = -\frac{\pi}{2} e^{-a}$$

$$f(a) = \int_{0}^{\infty} \frac{x(1+x')}{x(1+x')} dx = 2 \int_{0}^{\infty} x^{2} \sqrt{1-\frac{x'}{2}} dx = \frac{\pi}{2}$$

$$f(a) = \int_{0}^{\infty} \frac{x(1+x')}{x(1+x')} dx = 2 \int_{0}^{\infty} x^{2} \sqrt{1-\frac{x'}{2}} dx = \frac{\pi}{2}$$

$$f'(a) = \int_{0}^{\infty} \frac{x(1+x')}{x(1+x')} dx = 2 \int_{0}^{\infty} x^{2} \sqrt{1-\frac{x'}{2}} dx = \frac{\pi}{2}$$

$$f''(a) = \int_{0}^{\infty} \frac{x(1+x')}{x(1+x')} dx = 2 \int_{0}^{\infty} x^{2} \sqrt{1-\frac{x'}{2}} dx = \frac{\pi}{2}$$

$$f''(a) = \int_{0}^{\infty} \frac{x(1+x')}{x(1+x')} dx = 2 \int_{0}^{\infty} x^{2} \sqrt{1-\frac{x'}{2}} dx = \frac{\pi}{2}$$

$$f''(a) = \int_{0}^{\infty} \frac{x(1+x')}{x(1+x')} dx = \int_{0}^{\infty} \frac{x(1+x')}{x(1+x')} dx = \int_{0}^{\infty} \frac{x(1+x')}{x(1+x')} dx = \frac{\pi}{2}$$

$$f'''(a) = \int_{0}^{\infty} \frac{x(1+x')}{x(1+x')} dx = \int_{0}^{$$

$$f'''(\alpha) = \int_{0}^{\infty} \frac{6 \sin 2\alpha x \cos 2\alpha x \cdot 2\alpha \cdot 16 \sin^{2}\alpha x}{x}$$

$$\frac{\cos \alpha x d\alpha}{x} = 6 \int_{0}^{\infty} \frac{\sin \alpha x}{x} dx - 16 \int_{0}^{\infty} \frac{\sin^{2}\alpha x}{x}$$

$$\frac{\cos x d\alpha}{x} = 3\pi \sin \alpha x - 16 \int_{0}^{\infty} \frac{\sin \alpha x}{4x} dx - \frac{\sin^{2}\alpha x}{x}$$

$$- \int_{0}^{\infty} \frac{\sin \alpha x}{x} dx = 2\pi \sin \alpha$$

$$\int_{0}^{\infty} \frac{\sin \alpha x}{x} dx = \frac{\pi}{x} \sin \alpha$$

Сканировано с CamScanner

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