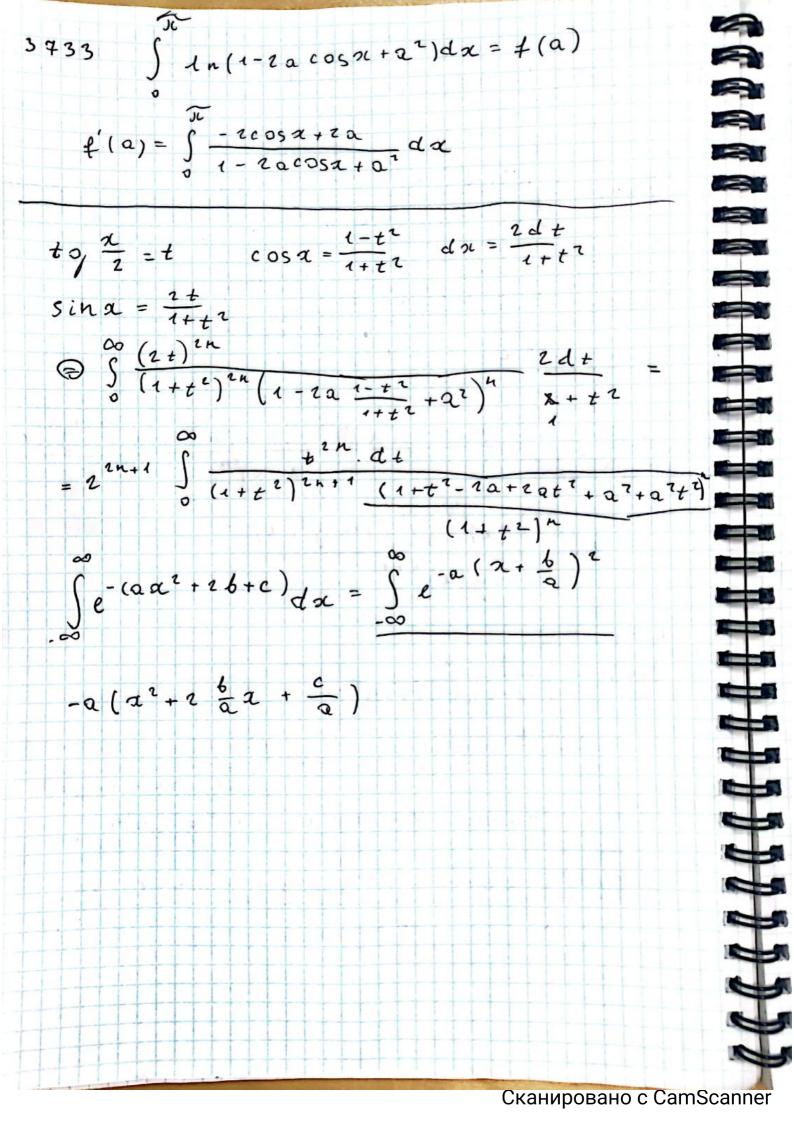
$F(a) = \int \frac{\sin^{2n} x}{(1 - 2a\cos x + a^{2})^{n}} dx \quad |a| > 1$ $F'(a) = 2 \int \frac{\sin^2 \alpha}{(1-2a\cos \alpha + a^2)^{n+1}} d\alpha$ no roumery $dv = \sin \alpha d\alpha \qquad v = -\cos \alpha$ $du = \frac{(2n-1)\sin^{2n-2}(\cos \alpha(1-2\alpha\cos \alpha+\alpha^2))}{(1-2\alpha\cos \alpha+\alpha^2)^{n+1}}$ $-n\sin^{2n} x(2\alpha\sin \alpha)$ $\left(\frac{f(x)}{g(x)^n}\right)^1 = \frac{f'(z)g(x)^n - f(n)n(g(x))^n g'(z)}{g(x)^{2n}}$ $= \frac{f'(\alpha)o_{y}(\alpha) - f(\alpha)n g'(\alpha)}{g(\alpha)^{n+1}}$ h = 1 $\Im = \int \frac{\sin^4 \alpha}{1 - 2 \cdot \alpha} \cos \alpha + \Omega^2$ du= cosa (1-2acosata7) $U = \frac{\sin \alpha}{1 - 10\cos \alpha + \alpha^2}$ 11-20, cos x + a 1)2 du = 5: hz da v= - cos 2 + 2 oc sin'a = \(\frac{11}{cos^{2}a - 2 a \cos^{3} \alpha + a^{2} \cos^{2} \alpha + 2 a \sin^{2} \ta \cos^{2} \ta \cos^ Сканировано с CamScanner



4.
$$\sum_{i=1}^{\infty} (-i)^{n} \frac{x^{n}}{6n-8}$$

$$\sup_{\alpha \in [0;i]} \sum_{k=n+1}^{\infty} \frac{x^{k}}{6k-8} \left\{ \sup_{\alpha \in [0,i]} \frac{x^{n+i}}{6n-82} \right\}$$

$$\lim_{\alpha \in [0,i]} \sum_{k=n+1}^{\infty} \frac{x^{k}}{6k-8} \left\{ \sup_{\alpha \in [0,i]} \frac{x^{n+i}}{6n-82} \right\}$$
2.
$$\lim_{\alpha \in [0,i]} \frac{(\alpha-i)^{n}}{2^{n}(n+5)} = (\alpha \in [0,i]) = (\alpha \in [0,i])$$

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