Computer: Exercise 12

Q 11
$$\int_{\mathbb{R}^{2} \times 2\pi \times 1} \int_{\mathbb{R}^{2}} dx$$

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J V2 (1+2) dn - Lydy S & ydy 7 (1-72) $=2\int \frac{dy}{(-y)^2}$ (8) Sin'n +4 Sinn +5 atsin'n + be win Q8 Ssin22 dx a sin2x b cos2 Let Sinn = $\frac{1}{2}$ diff with nCosn dn = dy(Sinn da2 Sinn Cosx dn Let asin2x + b co3x=} 37 Sinnda

Vacos'n +65im $=\int \frac{dy}{y^2+4y+5}$ Let, Cosx =y $\frac{-\frac{dy}{(y+2)^2+1}}$ dtann = seen, d Colu = cusein $= \int \frac{Se^2_{cx} dx}{a^2 + b^2 + an^2x}$ $Q^{29} \int \frac{dx}{5 - 4 \sin x}$ $\int \frac{den}{5 - 4 \sin x} + \cos^{2} x/2$ $Sinx = 2 \sin^{2} x \cos^{2} x/2$ Let, tann = y $Se^{2}n dn = dy$ $= \int \frac{dy}{a^{2} + b^{2}y^{2}}$ COSX = Sil COS x - Sinx = 5 dn 5(5in² x + cos² y) -4 2Sin² Cos² $=\frac{1}{b^2}\int \frac{dy}{(4)^2+y^2}$ $+ c = \int \frac{Sec^2 x_2 dx}{5(\tan^2 x + 1) - 8 \tan^2 x_2}$ = 1/2 1/4 tan /a/b = y = put ue Let tanx = y 27. S COS2 dx 5-3 COS2 A(Den)+B $= \int_{-\frac{\pi}{3}}^{\frac{\pi}{3}} (5 - 3 \cos x) + \frac{5}{3} dx$ $= \int_{-\frac{\pi}{3}}^{\frac{\pi}{3}} (5 - 3 \cos x) + \frac{5}{3} dx$ $= \int_{-\frac{\pi}{3}}^{\frac{\pi}{3}} (5 - 3 \cos x) + \frac{5}{3} dx$ $= \int_{-\frac{\pi}{3}}^{\frac{\pi}{3}} (5 - 3 \cos x) + \frac{5}{3} dx$ $= \int_{-\frac{\pi}{3}}^{\frac{\pi}{3}} (5 - 3 \cos x) + \frac{5}{3} dx$ $= \int_{-\frac{\pi}{3}}^{\frac{\pi}{3}} (5 - 3 \cos x) + \frac{5}{3} dx$ $= \int_{-\frac{\pi}{3}}^{\frac{\pi}{3}} (5 - 3 \cos x) + \frac{5}{3} dx$ $= \int_{-\frac{\pi}{3}}^{\frac{\pi}{3}} (5 - 3 \cos x) + \frac{5}{3} dx$ $= \int_{-\frac{\pi}{3}}^{\frac{\pi}{3}} (5 - 3 \cos x) + \frac{5}{3} dx$ $= \int_{-\frac{\pi}{3}}^{\frac{\pi}{3}} (5 - 3 \cos x) + \frac{5}{3} dx$ $= \int_{-\frac{\pi}{3}}^{\frac{\pi}{3}} (5 - 3 \cos x) + \frac{5}{3} (5 - 3 \cos x)$ $= \int_{-\frac{\pi}{3}}^{\frac{\pi}{3}} (5 - 3 \cos x) + \frac{5}{3} (5 - 3 \cos x)$ $= \int_{-\frac{\pi}{3}}^{\frac{\pi}{3}} (5 - 3 \cos x) + \frac{5}{3} (5 - 3 \cos x)$ $= \int_{-\frac{\pi}{3}}^{\frac{\pi}{3}} (5 - 3 \cos x) + \frac{5}{3} (5 - 3 \cos x)$ $= \int_{-\frac{\pi}{3}}^{\frac{\pi}{3}} (5 - 3 \cos x) + \frac{5}{3} (5 - 3 \cos x)$

$$\frac{-\frac{1}{3}\int dx}{5-3\cos x} + \frac{5}{3}\int \frac{dx}{5-3\cos x} = \frac{19}{30}\int \frac{\cos \theta}{\cos \theta} d\theta$$

$$\frac{-\frac{1}{3}\int dx}{5-3\cos x} + \frac{5}{30}\int \frac{\cos \theta}{\cos \theta} + \frac{1}{3}\int \frac{\cos \theta}{\sin \theta} + \frac{1}{3}\int \frac{\cos \theta}{\cos \theta} + \frac{1}{3}\int \frac{4\sin \theta}{\cos \theta} + \frac{1}{3}\int \frac{4\cos \theta}{\cos \theta} + \frac{1}{3}\int \frac{1}{3$$