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$$= \frac{1}{3} \frac{3\cos x + 5}{3\cos x + 5} \frac{1}{3\cos x + 5} \frac{$$

$$A = \frac{1}{3} dC$$

$$B = \int \frac{1}{3\cos x + 5} dx = \int \frac{1}{2(ty^2 \frac{x}{2} + 4)} dx + ty \frac{x}{2} = u = 1$$

$$= \int dx = 4\cos^2 \frac{x}{2} du = 1 + \cos \frac{x}{2} du = 1$$

$$= \int \frac{4}{2(ty^2 + 4)} du = \int \frac{2}{4u^2 + 4} du = \frac{1}{2} \int \frac{1}{4u^2 + 1} du = \frac{1}{2} \int \frac{1}{4u^$$

$$C = \begin{cases} \frac{5imx}{3\cos x + 5} & 3\cos x + 5 = 4 = 7\frac{3u}{3x} = 3\sin x \\ \frac{3\cos x + 5}{3\cos x + 5} & 3\cos x + 5 = 4 = 7\frac{3u}{3x} = 3\sin x \\ \frac{3u}{3\cos x + 5} & 3\cos x + 5 = 4 = 7\frac{3u}{3x} = 3\sin x \\ \frac{3u}{3\cos x + 5} & 3\cos x + 5 = 4 = 7\frac{3u}{3x} = 3\sin x \\ \frac{3u}{3\cos x + 5} & 3\cos x + 5 = 4 = 7\frac{3u}{3x} = 3\sin x \\ \frac{3u}{3\cos x + 5} & 3\cos x + 5 = 4 = 7\frac{3u}{3x} = 3\sin x \\ \frac{3u}{3\cos x + 5} & 3\cos x + 5 = 4 = 7\frac{3u}{3x} = 3\sin x \\ \frac{3u}{3\cos x + 5} & 3\cos x + 5 = 4 = 7\frac{3u}{3x} = 3\sin x \\ \frac{3u}{3\cos x + 5} & 3\cos x + 5 = 4 = 7\frac{3u}{3x} = 3\sin x \\ \frac{3u}{3\cos x + 5} & 3\cos x + 5 = 4 = 7\frac{3u}{3x} = 3\sin x \\ \frac{3u}{3\cos x + 5} & 3\cos x + 5 = 4 = 7\frac{3u}{3x} = 3\sin x \\ \frac{3u}{3\cos x + 5} & 3\cos x + 5 = 4 = 7\frac{3u}{3x} = 3\sin x \\ \frac{3u}{3\cos x + 5} & 3\cos x + 5 = 4 = 7\frac{3u}{3x} = 3\sin x \\ \frac{3u}{3\cos x + 5} & 3\cos x + 5 = 4 = 7\frac{3u}{3x} = 3\sin x \\ \frac{3u}{3\cos x + 5} & 3\cos x + 5 = 4 = 7\frac{3u}{3x} = 3\sin x \\ \frac{3u}{3\cos x + 5} & 3\cos x + 5 = 4 = 7\frac{3u}{3x} = 3\sin x \\ \frac{3u}{3\cos x + 5} & 3\cos x + 5 = 4 = 7\frac{3u}{3x} = 3\sin x \\ \frac{3u}{3\cos x + 5} & 3\cos x + 5 = 4 = 7\frac{3u}{3\cos x} = 3\sin x \\ \frac{3u}{3\cos x + 5} & 3\cos x + 5 = 4 = 7\frac{3u}{3\cos x} = 3\sin x \\ \frac{3u}{3\cos x} & 3\cos x + 5 = 4 = 7\frac{3u}{3\cos x} = 3\sin x \\ \frac{3u}{3\cos x} & 3\cos x + 5 = 4 = 7\frac{3u}{3\cos x} = 3\sin x \\ \frac{3u}{3\cos x} & 3\cos x + 5 = 4 = 7\frac{3u}{3\cos x} = 3\sin x \\ \frac{3u}{3\cos x} & 3\cos x + 5 = 4 = 7\frac{3u}{3\cos x} = 3\sin x \\ \frac{3u}{3\cos x} & 3\cos x + 5 = 4 = 7\frac{3u}{3\cos x} = 3\cos x \\ \frac{3u}{3\cos x} & 3\cos x + 5 = 4 = 7\frac{3u}{3\cos x} = 3\cos x \\ \frac{3u}{3\cos x} & 3\cos x + 5 = 4 = 7\frac{3u}{3\cos x} = 3\cos x + 5 = 4 = 7\frac{3u}{3\cos x} = 3\cos x + 5 = 4 = 7\frac{3u}{3\cos x} = 3\cos x + 5 = 4 = 7\frac{3u}{3\cos x} = 3\cos x + 5 = 4 = 7\frac{3u}{3\cos x} = 3\cos x + 5 = 4 = 7\frac{3u}{3\cos x} = 3\cos x + 5 = 4 = 7\frac{3u}{3\cos x} = 3\cos x + 5 = 4 = 7\frac{3u}{3\cos x} = 3\cos x + 5 = 4 = 7\frac{3u}{3\cos x} = 3\cos x + 5 = 4 = 7\frac{3u}{3\cos x} = 3\cos x + 5 = 4 = 7\frac{3u}{3\cos x} = 3\cos x + 5 = 7\frac{3u}{3\cos x} = 3\cos x$$

$$= \int \frac{3}{2} du = \frac{1}{3} \ln |u|$$

$$= \frac{3}{3\cos^{2}x+5} = \frac{3}{3} + \frac{11}{6} \operatorname{orctg}(tg_{\frac{x}{2}}) + \ln(3x+5)$$

2) $\int \sqrt{1 + 2 - 1 \times 0} = \int \sqrt{\frac{1 + 2}{x^2 - 1}} dx$ $\int \sqrt{\frac{1 + 2}{x^2 + 4}} dx$ $\int \sqrt{\frac{1 + 2 + 2}{x^2 + 4}} dx$ dfr1 = 1 (x+2x) dx = (1-12)2 $= \sqrt{\frac{1}{\xi - 1}} \frac{dx}{x^2} = \frac{dx}{(1 - \xi^2)^2} = d\xi = \frac{1}{2} dx = \frac{1}{2} + \frac{1}{2} d\xi$ S = 1 dx = S = 1 + 1 + 1 dt = 1 $= \begin{cases} \frac{4}{(1+4)(1-4)(1+4)} dx \\ \frac{4}{(1+4)(1-4)(1+4)} dx \end{cases}$ t=-4 => 20= A-25-9=>A=4 t=-1=> 2= E-3.4=> e=4 t=1=7 0= C.20= C=0 t= A+19+D=0, 45+B+D=0 D=-B-4 +3=> 5B+3D+C+80+C=0=> 5B+3(-B-4)+1=0=> B-1 A+13+D=0=>D=3 =2= Bon: OUI 6600044

$$\frac{4}{3} \left(\frac{4}{43} + \frac{1}{20(41)} + \frac{5}{36(41)} + \frac{1}{6(41)^{2}} \right) dt \\
= \frac{16}{45} \left(\frac{dt}{t+u} + \frac{4}{20} \right) \frac{dt}{t+1} + \frac{25}{36} \int \frac{dt}{t+1} - \frac{4}{6} \int \frac{dt}{(41)^{2}} dt \\
= \frac{16}{45} \cdot \ln \left| \frac{1}{x^{2}} + \frac{4}{44} \right| + \frac{4}{20} \ln \left| \frac{1}{x^{2}} - \frac{1}{36} \ln \left| \frac{1}{x} \right| - \frac{4}{6} \left(\frac{1}{x^{2}} \right) \right| + C$$