

Primitives niveau terminale - 13^{ième} feuille

$$A = \int \frac{\sin x e^{\sec x} dx}{\cos^2 x}$$

$$B = \int \frac{\cos x dx}{1 + \sin^2 x}$$

$$C = \int \frac{\cos 2t}{1 + \sin 2t}$$

$$D = \int \frac{dx}{\sin x \cos x}$$

$$E = \int \sqrt{1 + \sin x} dx$$

$$F = \int \frac{\sin x dx}{\cos^2 x - 5 \cos x + 4}$$

$$G = \int \frac{e^{2x} dx}{\sqrt[3]{1 + e^x}}$$


$$H = \int \frac{dx}{x^6 - 1}$$

$$I = \int \frac{dy}{y(2y^3 + 1)^2}$$

$$J = \int \frac{x dx}{1 + \sqrt{x}}$$

$$K = \int \frac{dx}{x(x^2 + 1)^2}$$

$$L = \int \ln \sqrt{x - 1} dx$$

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Réponse 13

$$A = e^{\sec x} + C, C \in \mathbb{R} + C, C \in \mathbb{R}$$

$$B = \arctan(\sin x) + C, C \in \mathbb{R}$$

$$C = \frac{1}{2} \ln |1 + \sin 2t| + C, C \in \mathbb{R}$$

$$D = \ln |\tan x| + C, C \in \mathbb{R}$$

$$E = -\frac{2\cos x}{\sqrt{1 + \sin x}} + C, C \in \mathbb{R}$$

$$F = \frac{1}{3} \ln \left| \frac{1 - \cos x}{4 - \cos x} \right| + C, C \in \mathbb{R}$$

$$G = \frac{3}{10} (2e^x - 3)(1 + e^x)^{\frac{2}{3}} + C, C \in \mathbb{R}$$

$$H = \frac{1}{12} \ln \left| \frac{(x-1)^2(x^2-x+1)}{(x+1)^2(x^2+x+1)} \right| - \frac{\sqrt{3}}{6} \arctan \frac{\sqrt{3}x}{1-x^2} + C, C \in \mathbb{R}$$

$$I = \frac{1}{3} \left(\frac{1}{2y^3+1} + \ln \left| \frac{2y^3}{2y^3+1} \right| \right) + C, C \in \mathbb{R}$$

$$J = \frac{2}{3} x^{\frac{3}{2}} - x + 2\sqrt{x} - 2\ln |1 + \sqrt{x}| + C, C \in \mathbb{R}$$

$$K = \ln \left| \frac{x}{\sqrt{1+x^2}} \right| - \frac{x^2}{2(1+x^2)} + C, C \in \mathbb{R}$$

$$L = (x-1)\ln |\sqrt{x-1}| - \frac{x}{2} + C, C \in \mathbb{R}$$

 [Retour](#)