

Primitives niveau terminale - 18^{ième} feuille

$$A = \int \frac{\cos x dx}{\sqrt{4 - \cos^2 x}}$$

$$B = \int \frac{\sec^2 x dx}{\sqrt{4 - \sec^2 x}}$$

$$C = \int x^2 \sin(1 - x) dx$$

$$D = \int \frac{dx}{1 + \sin x}$$

$$E = \int \frac{dx}{1 + 2\sin x}$$

$$F = \int \frac{dx}{\sin^3 x}$$

$$G = \int \frac{dx}{\cotan^3 x}$$


$$H = \int (\arcsin x)^2 dx$$

$$I = \int x \ln \sqrt[3]{3x + 1} dx$$

$$J = \int \frac{x^3 dx}{(x^2 + 1)^2}$$

$$K = \int \frac{x dx}{\sqrt{1 - x}}$$

$$L = \int x \sqrt{2x + 1} dx$$

Cliquez  [ici](#) pour toutes les réponses.

Réponse 18

$$A = \ln \left| \sin x + \sqrt{3 + \sin^2 x} \right| + C, C \in \mathbb{R}$$

$$B = \arcsin \frac{\tan x}{\sqrt{3}} + C, C \in \mathbb{R}$$

$$C = (x^2 - 2)\cos(1 - x) + 2x\sin(1 - x) + C, C \in \mathbb{R}$$

$$D = \tan x - \sec x + C, C \in \mathbb{R}$$

$$E = \sqrt{3} \ln \left| \frac{1 + 2\sin x}{2 + \sin x + \sqrt{3}\cos x} \right| + C, C \in \mathbb{R}$$

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

$$G = \frac{1}{2} \tan^2 x + \ln |\cos x| + C, C \in \mathbb{R}$$

$$H = x(\arcsin x)^2 - 2x + 2\sqrt{1 - x^2} \arcsin x + C, C \in \mathbb{R}$$

$$I = \frac{1}{54} (9x^2 - 1) \ln |3x + 1| - \frac{x^2}{12} + \frac{x}{18} + C, C \in \mathbb{R}$$

$$J = \frac{1}{2} \ln(x^2 + 1) + \frac{1}{2(x^2 + 1)} + C, C \in \mathbb{R}$$

$$K = -\frac{2}{3} (x + 2) \sqrt{1 - x} + C, C \in \mathbb{R}$$

$$L = \frac{1}{15} (3x - 1)(2x + 1)^{\frac{3}{2}} + C, C \in \mathbb{R}$$

[👉 Retour](#)