

Primitives niveau terminale - 7^{ième} feuille

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

$$B = \int \frac{dy}{y^2\sqrt{y^2 - 7}}$$

$$C = \int \frac{dx}{x^3\sqrt{x^2 - 9}}$$

$$D = \int x \sin x dx$$

$$E = \int \ln x dx$$

$$F = \int \frac{udu}{\cos^2 u}$$

$$G = \int x \sin^2 3x dx$$


$$H = \int x a^x dx$$

$$I = \int \arcsin x dx$$

$$J = \int \arctan x dx$$

$$K = \int \arccos 2x dx$$

$$L = \int x \arctan x dx$$

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Réponse 7

$$A = \frac{1}{2} \ln \left| \frac{x}{2 + \sqrt{x^2 + 4}} \right| + C, C \in \mathbb{R}$$

$$B = \frac{\sqrt{y^2 - 7}}{7y} + C, C \in \mathbb{R}$$

$$C = \frac{\sqrt{x^2 - 9}}{18x^2} + \frac{1}{54} \operatorname{arcsec} \frac{x}{3} + C, C \in \mathbb{R}$$

$$D = \sin x - x \cos x + C, C \in \mathbb{R}$$

$$E = x(\ln |x| - 1) + C, C \in \mathbb{R}$$

$$F = u \tan u + \ln |\cos u| + C, C \in \mathbb{R}$$

$$G = \frac{1}{4} x^2 - \frac{1}{12} x \sin 6x - \frac{1}{72} \cos 6x + C, C \in \mathbb{R}$$

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

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

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

$$K = x \arccos 2x - \frac{1}{2} \sqrt{1 - 4x^2} + C, C \in \mathbb{R}$$

$$L = \frac{x^2 + 1}{2} \arctan x - \frac{x}{2} + C, C \in \mathbb{R}$$

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