

Primitives niveau terminale - 17<sup>ième</sup> feuille

$$A = \int \frac{8dx}{x^4 + 2x^3}$$

$$B = \int \frac{xdx}{x^4 - 16}$$

$$C = \int \frac{\cos x dx}{\sin^3 x - \sin x}$$

$$D = \int \frac{d\mu}{(e^\mu + e^{-\mu})^2}$$

$$E = \int \frac{xdx}{1 + \sqrt{x} + x}$$

$$F = \int \frac{\sec^2 t dt}{\sec^2 t - 3\tan t + 1}$$

$$G = \int \frac{dt}{\sec^2 t + \tan^2 t}$$


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

$$I = \int e^{2t} \operatorname{cose}^t dt$$

$$J = \int \ln \sqrt{x^2 + 1} dx$$

$$K = \int x \ln(x^3 + x) dx$$

$$L = \int x^3 e^{x^2} dx$$

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Réponse 17

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

$$B = \frac{1}{16} \ln \left| \frac{x^2 - 4}{x^2 + 4} \right| + C, C \in \mathbb{R}$$

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

$$D = -\frac{1}{2} \frac{1}{e^{2\mu} + 1} + C, C \in \mathbb{R}$$

$$E = x - 2\sqrt{x} + \frac{4}{\sqrt{x}} + \frac{4}{\sqrt{3}} \arctan \frac{1 + 2\sqrt{x}}{\sqrt{3}} + C, C \in \mathbb{R}$$

$$F = \ln |\tan t - 2| - \ln |\tan t - 1| + C, C \in \mathbb{R}$$

$$G = -t + \sqrt{2} \arctan(\sqrt{2} \tan t) + C, C \in \mathbb{R}$$

$$H = \frac{1}{\sqrt{2}} \arctan \frac{\tan x}{\sqrt{2}} + C, C \in \mathbb{R}$$

$$I = e^t \operatorname{sine}^t + \operatorname{cose}^t + C, C \in \mathbb{R}$$

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

$$K = \frac{1}{2} x^2 \ln |x^3 + x| - \frac{3}{4} x^2 + \frac{1}{2} \ln |x^2 + 1| + C, C \in \mathbb{R}$$

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

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