

Primitives niveau terminale - 8<sup>ième</sup> feuille

$$A = \int \arctan\sqrt{x} dx$$

$$B = \int x^2 e^{-x} dx$$

$$C = \int e^x \cos x dx$$

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

$$E = \int x^2 \arcsin x dx$$

$$F = \int \frac{\ln(x+1) dx}{\sqrt{x+1}}$$

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


$$H = \int e^{-x} \cos \pi x dx$$

$$I = \int x^3 e^x dx$$

$$J = \int x^2 \cos 2x dx$$

$$K = \int \frac{x^2 dx}{\sqrt{1-x^2}}$$

$$L = \int e^{-x} \sin x \cos x dx$$

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Réponse 8

$$A = (x + 1)\arctan\sqrt{x} - \sqrt{x} + C, C \in \mathbb{R}$$

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

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

$$D = \frac{x}{x+1}\ln|x| - \ln|x+1| + C, C \in \mathbb{R}$$

$$E = \frac{x^3}{3}\arcsin x + \frac{x^2 + 2}{9}\sqrt{1 - x^2} + C, C \in \mathbb{R}$$

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

$$G = \frac{e^x}{1+x} + C, C \in \mathbb{R}$$

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

$$I = e^x(x^3 - 3x^2 + 6x - 6) + C, C \in \mathbb{R}$$

$$J = \frac{1}{4}(2x^2 \sin 2x + 2x \cos 2x - \sin 2x) + C, C \in \mathbb{R}$$

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

$$L = -\frac{1}{10}e^{-x}\sin 2x - \frac{1}{5}e^{-x}\cos 2x + C, C \in \mathbb{R}$$

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