

Intégrales niveau terminale - 02^{ième} feuille

$$A = \int_0^{\frac{\pi}{2}} \sin^3 x \cos^3 x dx$$

$$B = \int_0^{\frac{\pi}{4}} \sec^4 \theta d\theta$$

$$C = \int_{-2}^{-1} \frac{(x-1)dx}{\sqrt{x^2 - 4x + 3}}$$

$$D = \int_0^{\frac{\pi}{4}} \frac{dx}{2 + \tan x}$$

$$E = \int_{\frac{\pi}{6}}^{\frac{\pi}{3}} \frac{dx}{\sin 2x}$$

$$F = \int_1^3 \ln(x + \sqrt{x^2 - 1})$$

$$G = \int_0^{+\infty} \frac{dx}{a^2 + b^2 x^2}$$

$$H = \int_0^{+\infty} x e^{-x^2} dx$$

$$I = \int_1^5 \frac{x dx}{\sqrt{5-x}}$$

$$J = \int_0^a \frac{x^2 dx}{\sqrt{a^2 - x^2}}$$

$$K = \int_1^2 \frac{dx}{x^2 \sqrt{4-x^2}}$$

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Réponse 2

$$A = \frac{1}{12}$$

$$B = \frac{4}{3}$$

$$C = \ln \frac{3 - 2\sqrt{2}}{4 - \sqrt{15}} + 2\sqrt{2} - \sqrt{15}$$

$$D = \frac{1}{5} \ln \frac{3\sqrt{2}}{4} + \frac{\pi}{10}$$

$$E = \ln \sqrt{3}$$

$$F = 3 \ln(3 + 2\sqrt{2}) - 2\sqrt{2}$$

$$G = \frac{\pi}{2ab}$$

$$H = \frac{1}{2}$$

$$I = \frac{44}{3}$$

$$J = \frac{\pi a^2}{4}$$

$$K = \frac{\sqrt{3}}{4}$$

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