

Primitives niveau terminale - 9^{ième} feuille

$$A = \int (3x - 2\sqrt{x}) \ln x dx$$

$$B = \int \frac{\cos 2x dx}{e^{3x}}$$

$$C = \int x(e^{\alpha x} - e^{\beta x})^2 dx$$

$$D = \int \frac{(4x - 2) dx}{x^3 - x^2 - 2x}$$

$$E = \int \frac{(5x^2 - 3) dx}{x^3 - x}$$

$$F = \int \frac{(4x + 3) dx}{4x^3 + 8x^2 + 3x}$$

$$G = \int \frac{(4x^3 + 2x^2 + 1) dx}{4x^3 - x}$$


$$H = \int \frac{(3x^2 + 5x) dx}{(x - 1)(x + 1)^2}$$

$$I = \int \frac{x^2}{(x - 1)^3}$$

$$J = \int \frac{(y^4 - 8) dy}{y^3 + 2y^2}$$

$$K = \int \frac{(x^5 + x^4 - 8) dx}{x^3 - 4x}$$

$$L = \int \frac{dx}{9x^2 - 4}$$

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Réponse 9

$$A = \left(\frac{3}{2}x^2 - \frac{4}{3}x\sqrt{x}\right)\ln|x| - \frac{3}{4}x^2 + \frac{8}{9}x\sqrt{x} + C, C \in \mathbb{R}$$

$$B = \frac{2}{13}e^{-3x}\sin 2x - \frac{3}{13}e^{-3x}\cos 2x + C, C \in \mathbb{R}$$

$$C = \frac{1}{4\alpha^2}e^{2\alpha x}(2\alpha x - 1) + \frac{1}{4\beta^2}e^{2\beta x}(2\beta x - 1) - \frac{2}{(\alpha + \beta)^2}e^{(\alpha + \beta)x}[(\alpha + \beta)x - 1] + C, C \in \mathbb{R}$$

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

$$E = \ln |x^3(x^2 - 1)| + C, C \in \mathbb{R}$$

$$F = -\frac{1}{2}\ln \left| \frac{(2x - 1)(2x + 3)}{x^2} \right| + C, C \in \mathbb{R}$$

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

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

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

$$J = \frac{y^2}{2} - 2y + \frac{4}{y} + 2\ln |y^2 + 2y| + C, C \in \mathbb{R}$$

$$K = \frac{x^3}{3} + \frac{x^2}{2} + 4x + \ln \left| \frac{x^2(x - 2)^5}{(x + 2)^3} \right| + C, C \in \mathbb{R}$$

$$L = \frac{1}{12}\ln \left| \frac{3x - 2}{3x + 2} \right| + C, C \in \mathbb{R}$$

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