

Primitives niveau terminale - 4^{ième} feuille

$$A = \int \frac{dy}{y^2 + 3y + 1}$$

$$B = \int \frac{dx}{\sqrt{2 - 3x - 4x^2}}$$

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

$$D = \int \frac{(x - 1)dx}{\sqrt{1 - x^2}}$$

$$E = \int \frac{(3x - 1)dx}{9 + x^2}$$

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

$$G = \int \frac{(2x + 5)dx}{x^2 + 2x + 5}$$


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

$$I = \int \frac{(3x - 2)dx}{1 - 6x - 9x^2}$$

$$J = \int \frac{(x + 2)dx}{\sqrt{4x - x^2}}$$

$$K = \int \frac{(8x - 3)dx}{\sqrt{12x - 4x^2 - 5}}$$

$$L = \int \sin^3 6x \cos 6x dx$$

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Réponse 4

$$A = \frac{1}{\sqrt{5}} \ln \left| \frac{2y + 3 - \sqrt{5}}{2y + 3 + \sqrt{5}} \right| + C, C \in \mathbb{R}$$

$$B = \frac{1}{2} \arcsin \frac{8x + 3}{\sqrt{41}} + C, C \in \mathbb{R}$$

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

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

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

$$F = \frac{1}{3} \ln |3x^2 - 2| - \frac{5\sqrt{6}}{12} \ln \left| \frac{3x - \sqrt{6}}{3x + \sqrt{6}} \right| + C, C \in \mathbb{R}$$

$$G = \ln |x^2 + 2x + 5| + \frac{3}{2} \arctan \frac{x + 1}{2} + C, C \in \mathbb{R}$$

$$H = -\frac{1}{8} \ln |4x^2 - 4x - 3| + \frac{1}{16} \ln \left| \frac{2x - 3}{2x + 1} \right| + C, C \in \mathbb{R}$$

$$I = -\frac{1}{6} \ln |1 - 6x - 9x^2| + \frac{\sqrt{2}}{4} \ln \left| \frac{3x + 1 - \sqrt{2}}{3x + 1 + \sqrt{2}} \right| + C, C \in \mathbb{R}$$

$$J = -\sqrt{4x - x^2} + 4 \arcsin \frac{x - 2}{2} + C, C \in \mathbb{R}$$

$$K = -2\sqrt{12x - 4x^2 - 5} + \frac{9}{2} \arcsin \frac{2x - 3}{2} + C, C \in \mathbb{R}$$

$$L = \frac{1}{24} \sin^4 6x + C, C \in \mathbb{R}$$

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