

Primitives niveau terminale - 11^{ème} feuille

$$A = \int \frac{(2t^2 - 8t - 8)dt}{(t - 2)(t^2 + 4)}$$

$$B = \int \frac{(x^2 + x - 10)dx}{(2x - 3)(x^2 + 4)}$$

$$C = \int \frac{(x - 18)dx}{4x^3 + 9x}$$

$$D = \int \frac{dx}{x^4 + x^2}$$

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

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

$$G = \int \frac{(x^5 + 9x^3 - 9x^2 - 9)dx}{x^3 + 9x}$$


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

$$I = \int \frac{t^5 dt}{(t^2 + 4)^2}$$

$$J = \int \frac{dx}{x^3 + x^2 + x}$$

$$K = \int \frac{4dx}{x^4 - 1}$$

$$L = \int \frac{(2x^2 + 3x + 2)dx}{(x + 2)(x^2 + 2x + 2)}$$

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Réponse 11

$$A = 2\ln \left| \frac{t^2 + 4}{t - 2} \right| + C, C \in \mathbb{R}$$

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

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

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

$$E = \arctan x + \frac{1}{x + 1} + C, C \in \mathbb{R}$$

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

$$G = \frac{x^3}{3} - \ln |x(x^2 + 9)^4| + C, C \in \mathbb{R}$$

$$H = \ln \left| \frac{x^2}{x^2 + 2} \right| + \frac{x}{2(x^2 + 2)} + \frac{\sqrt{2}}{4}\arctan \frac{x}{\sqrt{2}} + C, C \in \mathbb{R}$$

$$I = \frac{t^2}{2} - 4\ln |t^2 + 4| - \frac{8}{t^2 + 4} + C, C \in \mathbb{R}$$

$$J = -\frac{1}{2}\ln \left| \frac{x^2 + x + 1}{x^2} \right| - \frac{\sqrt{3}}{3}\arctan \frac{2x + 1}{\sqrt{3}} + C, C \in \mathbb{R}$$

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

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

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