

Primitives niveau terminale - 6^{ième} feuille

$$A = \int \sqrt{1 - 4x^2} dx$$

$$B = \int \sqrt{1 + 9x^2} dx$$

$$C = \int \sqrt{25 - 9x^2} dx$$

$$D = \int \sqrt{3 - 2x - x^2} dx$$

$$E = \int \sqrt{5 - 2x + x^2} dx$$

$$F = \int \sqrt{10 - 4x + 4x^2} dx$$

$$G = \int \sin 2x \cos 4x dx$$


$$H = \int \sin 3x \sin 2x dx$$

$$I = \int \cos 4x \cos 3x dx$$

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

$$K = \int \frac{x^2 dx}{\sqrt{x^2 - 6}}$$

$$L = \int \frac{t^2 dt}{\sqrt{4 - t^2}}$$

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Réponse 6

$$A = \frac{x}{2}\sqrt{1-4x^2} + \frac{1}{4}\arcsin 2x + C, C \in \mathbb{R}$$

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

$$C = \frac{x}{2}\sqrt{25-9x^2} + \frac{25}{6}\arcsin \frac{3x}{5} + C, C \in \mathbb{R}$$

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

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

$$F = \frac{2x-1}{4}\sqrt{10-4x+4x^2} + \frac{9}{4}\ln \left| 2x-1 + \sqrt{10-4x+4x^2} \right| + C, C \in \mathbb{R}$$

$$G = \frac{1}{4}\cos 2x - \frac{1}{12}\cos 6x + C, C \in \mathbb{R}$$

$$H = \frac{1}{2}\sin x - \frac{1}{10}\sin 5x + C, C \in \mathbb{R}$$

$$I = \frac{1}{2}\sin x + \frac{1}{14}\sin 7x + C, C \in \mathbb{R}$$

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

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

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

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