■ Calculer en utilisant les fonctions composées

$$\int \cos(5x)\,dx$$

$$\int \frac{1}{\sqrt{2x-1}}\,dx$$

$$\int \frac{1}{3x-1}\,dx$$

$$\int \sec^2(x)\,\mathrm{tg}(x)\,dx$$

$$\int e^{6x}\,dx$$

$$\int \frac{x}{\sqrt{4-x^2}}\,dx$$

$$\int \cos(x)\sin^2(x)\,dx$$

■ Solutions

$$\int \cos(5x)\,dx = \frac{1}{5}\sin(5x) + k$$

$$\int \frac{1}{\sqrt{2x-1}}\,dx = \sqrt{2x-1} + k$$

$$\int x\left(x^2-3\right)^4\,dx = \frac{1}{10}\left(x^2-3\right)^5 + k$$

$$\int \frac{1}{3x-1}\,dx = \frac{1}{3}\ln(|3x-1|) + k$$

$$\int \sec^2(x)\,\mathrm{tg}(x)\,dx = \frac{\sec^2(x)}{2} + k$$

$$\int e^{6x}\,dx = \frac{e^{6x}}{6} + k$$

$$\int \frac{x}{\sqrt{4-x^2}}\,dx = -\sqrt{4-x^2} + k$$

$$\int \cos(x)\sin^2(x)\,dx = \frac{\sin(x)}{4} - \frac{1}{12}\sin(3x) + k$$