

Argomento 8

Soluzioni Esercizi

Sol. Ex. 8.1.

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| 1) $\frac{5}{6}(\sqrt[5]{x})^6 + c$ | 2) $-\frac{1}{36x^6} + c$ | 3) $2\log x - \frac{1}{4}x^4 + \frac{4}{3}x^3 + c$ |
| 4) $\frac{2}{3}(\sqrt{x})^3 - \frac{2}{x} + e^x + c$ | 5) $-\frac{1}{3}x^3 + x^2 + 8x + c$ | 6) $\frac{1}{2}x^2 - \frac{9}{5}(\sqrt[3]{x})^5 + \frac{9}{4}(\sqrt[3]{x})^4 - x + c$ |
| 7) $\frac{1}{2}x^2 + \frac{8}{\sqrt{x}} - \frac{1}{x} + c$ | 8) $\sin x + 6\sqrt{x} + c$ | 9) $e^x + \arctan x + c$ |
| 10) $7x + 2\log x + c$ | 11) $\frac{1}{2}x^2 - x + c$ | 12) $-2\cos x - \sin x + c$ |
| 13) $e^{x-1} + c$ | 14) $\frac{1}{\ln 4}4^x + c$ | 15) $\frac{1}{6}x^2 + \frac{2}{3}x + \frac{1}{3}\log x + c$ |
| 16) $\frac{3}{5}(\sqrt[3]{x})^5 + \frac{15}{2}(\sqrt[3]{x})^2 + c$ | 17) $x + \arctan x + c$ | 18) $\frac{2}{3}(\sqrt{x})^3 - 2x + c$ |
| 19) $\frac{3}{2}(\sqrt[3]{x})^2 + \frac{3}{5}(\sqrt[3]{x})^5 + c$ | 20) $x - \frac{2}{e^x} + c$ | 21) $\frac{1}{4}x^4 - \frac{2}{3}x^3 + 2x^2 - 8x + c$ |

Sol. Ex. 8.2.

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| 1) $-\frac{1}{x+3} + c$ | 2) $\frac{1}{16}(2x+5)^8 + c$ | 3) $-\frac{1}{3}\log 2-3x + c$ |
| 4) $-\frac{3}{4}(\sqrt[3]{4-x})^4 + c$ | 5) $2\sin\left(\frac{x}{2}\right) + c$ | 6) $\frac{1}{2\log 4}4^{2x} + c$ |
| 7) $\frac{1}{7}\log 7x+5 + c$ | 8) $\frac{1}{98}(7x+5)^{14} + c$ | 9) $-2\cos\left(\frac{x+4}{2}\right) + c$ |
| 10) $\frac{1}{3}e^{3x-5} + c$ | 11) $-\frac{15}{2}(\sqrt[3]{2-x})^2 + c$ | 12) $\frac{5}{12}(\sqrt[5]{3x})^4 + c$ |