Egyváltozós analízis integrálszámítás gyakorló feladatok

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(1) $\int 5x^{10} - \cos x + 4e^x \, \mathrm{d}x =$

(2) $\int \sin 8x + \cos \frac{x}{2} \, \mathrm{d}x =$

(3) $\int \mathrm{tg}\, x \, \mathrm{d}x =$

(4) $\int e^{3x+11} \, \mathrm{d}x =$

(5) $\int \frac{7e^x + 8e^{3x}}{e^{2x}} \, \mathrm{d}x =$

(6) $\int (2x+5)^7 + \frac{1}{(2x-11)^5} \, \mathrm{d}x =$

(7) $\int \frac{2}{9x+1} + \frac{7}{9x^2+1} \, \mathrm{d}x =$

(8) $\int e^x (e^x + 2)^{19} \, \mathrm{d}x =$

(9) $\int \frac{2x}{9x^2+3} \, \mathrm{d}x =$

(10) $\int \frac{\mathrm{tg}\, x}{\cos^2 x} \, \mathrm{d}x =$

(11) $\displaystyle\int \frac{\sqrt[4]{x\sqrt[5]{x}}}{\sqrt[6]{x}}\,\mathrm{d}x =$

(12) $\displaystyle\int \mathrm{tg}^2\, x\,\mathrm{d}x =$

(13) $\displaystyle\int (2x-3)^{10}\,\mathrm{d}x =$

(14) $\displaystyle\int x^2(2x^3+4)\,\mathrm{d}x =$

(15) $\displaystyle\int \sin x\cos x\,\mathrm{d}x =$

(16) $\displaystyle\int \frac{4\sin x}{5\cos x+4}\,\mathrm{d}x =$

(17) $\displaystyle\int xe^{-x}\,\mathrm{d}x =$