Berechnet folgende Integrale:

a) $F(x) = \int 2 \, dx$

b) $F(x) = \int 4x \, dx$

c) $F(x) = \int 4x + 1 \, dx$

d) $F(x) = \int 3x^2 + x \, dx$

e) $F(x) = \int 5x^4 + x^3 + x + 1 \, dx$

f) $F(x) = \int \frac{1}{x} \, dx$

g) $F(x) = \int \sin x \, dx$

h) $F(x) = \int \cos x \, dx$

i) $F(x) = \int 3x^4 + 2x^3 - 2x + 5 \, dx$

j) $F(x) = \int 5x^2 + 6x - 1 \, dx$

k) $F(x) = \int 8x^3 + 6x^2 + 4x + 2 \, dx$

l) $F(x) = \int \cos x + x^3 \, dx$

m) $F(x) = \int 8x^7 + 3x^2 + 2x \, dx$

n) $F(x) = \int 6x^2 - 4x \, dx$

o) $F(x) = \int 12x^3 - 6x \, dx$

p) $F(x) = \int 21x^6 - 5x^4 \, dx$

q) $F(x) = \int 9x^2 + 8x + 4 \, dx$

Lösungen vorher umfalten

$F(x) = 2x + C$

$F(x) = 2x^2 + C$

$F(x) = 2x^2 + x + C$

$F(x) = x^3 + 0{,}5x^2 + C$

$F(x) = x^5 + \frac{1}{4}x^4 + \frac{1}{2}x^2 + x + C$

$F(x) = \ln|x| + C$

$F(x) = -\cos x + C$

$F(x) = \sin x + C$

$F(x) = \frac{3}{5}x^5 + \frac{1}{2}x^4 - x^2 + 5x + C$

$F(x) = \frac{5}{3}x^3 + 3x^2 - x + C$

$F(x) = 2x^4 + 2x^3 + 2x^2 + 2x + C$

$F(x) = \sin x + \frac{1}{4}x^4 + C$

$F(x) = x^8 + x^3 + x^2 + C$

$F(x) = 2x^3 - 2x^2 + C$

$F(x) = 3x^4 - 3x^2 + C$

$F(x) = 3x^7 - x^5 + C$

$F(x) = 3x^3 + 4x^2 + 4x + C$