Neurcite' integrály

1) $\int x^3 - \frac{2}{x} + \sqrt[3]{x^2} - \frac{3}{\sqrt{x}} \, dx$

$$\left[\frac{x^4}{4} - 2\ln x + \frac{3\sqrt[3]{x^5}}{2} - 6\sqrt{x} + c \right]$$

2) $\int -2\cos x + 2e^x + \frac{1}{x^2+1} \, dx$

$$\left[-2\sin x + 2e^x + \arctan x + c \right]$$

3) $\int x \cdot \sqrt{x} - \frac{1+x}{x^2} \, dx$

$$\left[\frac{2\sqrt{x^5}}{5} + \frac{1}{x} - \ln x + c \right]$$

4) $\int \frac{x}{3} \cdot e^x \, dx$

$$\left[\frac{1}{3} e^x (x-1) + c \right]$$

5) $\int x^2 \cdot \ln x \, dx$

$$\left[\frac{x^3}{3} \ln x - \frac{x^3}{9} + c \right]$$

6) $\int x \cdot \cos x \, dx$

$$\left[x\sin x + \cos x + c \right]$$

7) $\int x^2 \cdot e^x \, dx$

$$\left[e^x (x^2 - 2x + 2) + c \right]$$

8) $\int \frac{(x-1)^2}{\sqrt{x}} \, dx$

$$\left[\frac{2}{5}\sqrt{x^5} - \frac{4}{3}\sqrt{x^3} + 2\sqrt{x} + c \right]$$

9) $\int \frac{\sin 2x}{\cos x} + \sin^2 x + \cos^2 x \, dx$

$$\left[-2\cos x + x + c \right]$$