

## אינטגרלים

1. $\int x^n dx = \frac{x^{n+1}}{n+1} + C, (n \neq -1)$	2. $\int \frac{dx}{x} = \ln x  + C.$	3. $\int e^x dx = e^x + C.$
4. $\int a^x dx = \frac{a^x}{\ln a} + C.$	5. $\int \frac{dx}{x^2 - a^2} = \frac{1}{2a} \ln \left  \frac{x-a}{x+a} \right  + C.$	6. $\int \frac{dx}{\sqrt{x^2 \pm a^2}} = \ln \left  x + \sqrt{x^2 \pm a^2} \right  + C.$
7. $\int \sqrt{x^2 \pm a^2} dx =$ $= \frac{x}{2} \sqrt{x^2 \pm a^2} \pm \frac{a^2}{2} \ln \left  x + \sqrt{x^2 \pm a^2} \right  + C$	8. $\int f(ax+b)dx = \frac{1}{a} F(ax+b) + C$	9. $\int_a^b f(x)dx = F(b) - F(a)$