

Integrali notevoli

<p>1. $\int x^n dx = \frac{1}{n+1} \cdot x^{n+1} + k$</p>	<p>2. $\int [f(x)]^n \cdot f'(x) dx = \frac{1}{n+1} \cdot [f(x)]^{n+1} + k$</p>
<p>3. $\int \frac{1}{2 \cdot \sqrt{x}} dx = \sqrt{x} + k$</p>	<p>4. $\int \frac{f'(x)}{2 \cdot \sqrt{f(x)}} dx = \sqrt{f(x)} + k$</p>
<p>5. $\int \frac{1}{x} dx = \ln x + k$</p>	<p>6. $\int \frac{1}{f(x)} \cdot f'(x) dx = \ln f(x) + k$</p>
<p>7. $\int \sin(x) dx = -\cos(x) + k$</p>	<p>8. $\int \sin[f(x)] \cdot f'(x) dx = -\cos[f(x)] + k$</p>
<p>9. $\int \cos(x) dx = \sin(x) + k$</p>	<p>10. $\int \cos[f(x)] \cdot f'(x) dx = \sin[f(x)] + k$</p>
<p>11. $\int \frac{1}{\cos^2(x)} dx = \tan(x) + k$</p>	<p>12. $\int \frac{1}{\cos^2[f(x)]} \cdot f'(x) dx = \tan[f(x)] + k$</p>
<p>13. $\int \frac{1}{\sin^2(x)} dx = -\frac{1}{\tan(x)} + k$</p>	<p>14. $\int \frac{1}{\sin^2[f(x)]} \cdot f'(x) dx = -\frac{1}{\tan[f(x)]} + k$</p>
<p>15. $\int a^x dx = \frac{1}{\ln a} \cdot a^x + k = \frac{a^x}{\ln a} + k$</p>	<p>16. $\int a^{f(x)} \cdot f'(x) dx = \frac{1}{\ln a} \cdot a^{f(x)} + k = \frac{a^{f(x)}}{\ln a} + k$</p>
<p>17. $\int \frac{1}{\sqrt{1-x^2}} dx = \begin{cases} \arcsin(x) + k \\ -\arccos(x) + k \end{cases}$</p>	<p>18. $\int \frac{1}{\sqrt{1-[f(x)]^2}} \cdot f'(x) dx = \begin{cases} \arcsin[f(x)] + k \\ -\arccos[f(x)] + k \end{cases}$</p>
<p>19. $\int \frac{1}{1+x^2} dx = \begin{cases} \arctan(x) + k \\ -\frac{1}{\arctan(x)} + k \end{cases}$</p>	<p>20. $\int \frac{1}{1+[f(x)]^2} \cdot f'(x) dx = \begin{cases} \arctan[f(x)] + k \\ -\frac{1}{\arctan[f(x)]} + k \end{cases}$</p>
<p>21. $\int \frac{1}{\sqrt{a^2-x^2}} dx = \arcsin \frac{x}{ a } + k$</p>	<p>22. $\int \frac{1}{\sqrt{a^2-[f(x)]^2}} \cdot f'(x) dx = \arcsin \frac{f(x)}{ a } + k$</p>
<p>23. $\int \frac{1}{a^2+x^2} dx = \begin{cases} \frac{\arctan\left(\frac{x}{a}\right)}{a} + k, a \neq 0 \\ -\frac{1}{a \cdot \arctan\left(\frac{x}{a}\right)} + k, a \neq 0 \end{cases}$</p>	<p>24. $\int \frac{1}{a^2+[f(x)]^2} \cdot f'(x) dx = \begin{cases} \frac{\arctan\left[\frac{f(x)}{a}\right]}{a} + k \\ -\frac{1}{a \cdot \arctan\left[\frac{f(x)}{a}\right]} + k \end{cases}$</p>