

1. $\int \frac{\sin(x/3)}{\sqrt[3]{\cos(x/3)}} dx$	$-\frac{9}{2} \left( \cos \frac{x}{3} \right)^{2/3} + C$
2. $\int \frac{dx}{x^2 + 5x + 1}$	$\frac{1}{\sqrt{21}} \ln \left  \frac{2x+5-\sqrt{21}}{2x+5+\sqrt{21}} \right  + C$
3. $\int (x^5 + 1) \ln x dx$	$\left( \frac{x^6}{6} + x \right) \ln x - \left( \frac{x^6}{36} + x \right) + C$
4. $\int \operatorname{tg}^2(x/5) dx$	$5 \operatorname{tg} \frac{x}{5} - x + C$
5. $\int \frac{x dx}{(x+3)^2(x-2)}$	$-\frac{3}{5} \frac{1}{x+3} + \frac{2}{25} \ln \left  \frac{x-2}{x+3} \right  + C$
6. $\int \frac{x}{\sqrt{3x+6}} dx$	$\frac{2}{27} \sqrt{(3x+6)^3} - \frac{4}{3} \sqrt{3x+6} + C$
7. $\int \frac{dx}{1 + \sin x \cos x + 2 \cos^2 x}$	$\frac{2}{\sqrt{11}} \operatorname{arctg} \frac{2 \operatorname{tg} x + 1}{\sqrt{11}} + C$
8. $\int \frac{4-5x}{\sqrt{x^2+6}} dx$	$4 \ln \left  x + \sqrt{x^2+6} \right  - 5 \sqrt{x^2+6} + C$