

## Cálculo 2 - Lista 16

### Exercícios adicionais

1.  $\int \frac{\sec^4 x}{\tan^2 x} dx$
2.  $\int \frac{\cos x}{\sin^3 x} dx$
3.  $\int \sqrt{\tan x} \sec^4 x dx$
4.  $\int \frac{1}{\sin^4 t} dt$
5.  $\int \frac{\tan^3 x \ sec^2 x}{\sin^2 x} dx$
6.  $\int \frac{\csc^2 \theta}{\cot^2 \theta} d\theta$
7.  $\int \frac{\sec^2 x}{\sqrt{1+\tan x}} dx$
8.  $\int \frac{3+4\csc^2 x}{\cot^2 x} dx$
9.  $\int \frac{\csc^4 x}{\cot^3 x} dx$

### Respostas

1.  $-\cot x + \tan x + C$
2.  $-\frac{1}{2} \csc x + C$
3.  $\frac{2}{3} \tan^{3/2} x + \frac{2}{7} \tan^{7/2} x + C$
4.  $-\cot t - \frac{1}{3} \cot^3 t + C$
5.  $\frac{1}{4} \sec^4 x + C$
6.  $\tan \theta + C$
7.  $2\sqrt{1+\tan x} + C$
8.  $7 \tan x - 3x + C$
9.  $\frac{1}{2} \tan^2 x + \ln |\tan x| + C$