

□ Zadaci 4

[Z 1]

[%i1) integrate((3*x+5)/(x^2+x+1),x);
 (%o1) $\frac{3 \log(x^2+x+1)}{2} + \frac{7 \operatorname{atan}\left(\frac{2x+1}{\sqrt{3}}\right)}{\sqrt{3}}$

[Z 2]

[%i2) integrate(x*%e^x,x);
 (%o2) $(x-1)\%e^x$

[Z 3]

[%i3) integrate(x^(-1/5),x,4,5);
 (%o3) $\frac{5^{9/5}}{4} - \frac{5}{4^{1/5}}$

[%i4) ratsimp(%);
 (%o4) $\frac{4^{1/5} 5^{9/5} - 20}{4^{6/5}}$

[%i5) radcan(%);
 (%o5) $\frac{2^{2/5} 5^{9/5} - 20}{2^{12/5}}$

[Z 4]

[%i6) integrate(1/(5+3*cos(x)^2),x,0,%pi/2);
 (%o6) $\frac{\pi}{4 \sqrt{10}}$

[Z 5]

[%i7) integrate(1/(1+x^2),x,1,inf);
 (%o7) $\frac{\pi}{4}$

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(%i8) integrate(log(x)^2/x^2,x,1,inf);
(%o8) 2