S[dx/(x^2-5x+6)] = S[dx/(x+1)(x-6)] = S[A/(x-2)+B/(x-3)]dx=S[[A(x-3)+B(x-2)]/(x-2)(x-3)]dx=
=S[[x(A+B)-A3-B2]/(x-2)(x-3)]dx=S[-1/(x-2)+1/(x-3)]dx=S[-1/(x-2)+1/(x-3)]dx=-ln|x-2|+ln|x-3|+C=
=ln|(x-3)/(x-2)|+C
x^2-5x+6=0
x=2;3
A/(x-2)+B/(x-3)=A(x-3)+B(x-2)=x(A+B)-A3-B2

x(A+B)-3A-2B=1
{A+B=0
{-3A-2B=1

{A=-B
{3A-2A=-1

{A=-B
{A=-1

{B=1
{A=-1