Неполная замена аргументов

(x^2 – x + 1)^4 – 6x^2(x^2 – x + 1)^2 + 5x^4 = 0

(x^2 – x + 1)^4 – 6x^2(x^2 – x + 1)^2 + 5x^4 = 0
y=(x^2 – x + 1)^2
y^2– 6x^2y + 5x^4 = 0
x^2=t
y^2– 6ty + 5t^2 = 0
1-6t/y+5t^2/y^2=0
1-6t/y+5t^2/y^2=0
t/y=U
1-6u+5u^2=0
u1=1
u2=1/5
t/y=1
x^2/(x^2 – x + 1)^2=1
x^2/(x^2 – x + 1)^2-1=0
(x/(x^2 – x + 1)-1)(x/(x^2 – x + 1)+1)=0
x/(x^2 – x + 1)-1=0 x/(x^2 – x + 1)+1=0
(x^2- 1)/(x^2 – x + 1)=0 (x+x^2 – x + 1)/(x^2 – x + 1)=0
x^2=1 (x^2+1)/(x^2 – x + 1)=0
x=+-1 x^2+1
x^2 – x + 1!=0 x^2=-1
корней нет

x^2/(x^2 – x + 1)^2-1/5=0
(x/(x^2 – x + 1)-V(1/5))(x/(x^2 – x + 1)+V(1/5))=0
x/(x^2 – x + 1)-V(1/5)=0
x-V(1/5)(x^2 – x + 1)/(x^2 – x + 1)=0
(x-x^2V(1/5) +xV(1/5) -V(1/5))/(x^2 – x + 1)=0|*V5
(xV5-x^2 +x -1)=0
xV5-x^2 +x -1=0|*(-1)
x^2 -x-xV5 +1=0
x^2+x(-1-V5)+1=0
D=(-1-V5)^2-4=1+2V5+5-4=2+2V5
x1=(-(-1-V5)+V(2+2V5))/2=(1+V5+V(2+2V5))/2
x2=(-(-1-V5)-V(2+2V5))/2=(1+V5-V(2+2V5))/2

x/(x^2 – x + 1)+V(1/5)=0
x+V(1/5)(x^2 – x + 1)=0|*V5
x^2 – x +xV5+ 1=0
x^2 + x(-1 +V5)+ 1=0
D=(-1 +V5)^2-4=1-2V5+5-4=2-2V5
x3=(-(-1+V5)+V(2-2V5))/2=(1-V5+V(2-2V5))/2
x4=(-(-1+V5)+V(2-2V5))/2=(1-V5+V(2-2V5))/2

x-x^2V(1/5) +xV(1/5) -V(1/5)=0|*V5
xV5 - x^2 +x-1=0