5) 16/(x+6)(x−1) − 20/(x+2)(x+3) = 1
16/(x^2+5x-6) - 20/(x^2+5x+6)-1=0
t=x^2+5x
16/(t-6)-20/(t+6)-1=0
16(t+6)-20(t-6)-(t-6)(t+6)/(t-6)(t+6)
16t+96-20t+120-t^2+36/(t-6)(t+6)
-t^2-4t+252=0
t^2+4t-252=0
D=4+252=256
x1=(-2+16)/1=14
x2=-18
x^2+5x-14=0
x1=-7
x2=2
x^2+5x+18=0
D=25-72=-47
Ответ:-7;2

5.5) 6/ (x+1)(x+2) + 8/ (x−1)(x+4) = 1
6/(x^2+3x+2)+8/(x^2+3x-4)=1
x^2+3x-1=z
6/(z+3)+8/(z-3)-1=0
(6(z-3)+8(z+3)-z^2+9)/(z-3)(z+3)=0
(6z-18+8z+24-z^2+9)/(z-3)(z+3)=0
(-z^2+14z+15)/(z-3)(z+3)=0
z^2-14z-15=0
z1=15
z2=-1
x^2+3x-16=0
D=9+64=73
x1=(-3-v73)/2
x2=(-3+v73)/2
x^2+3x=0
x(x+3)=0
x=0
x=-3
x!=-1
x!=-2
x!=1
x!=-4
Ответ:(-3-v73)/2;(-3+v73)/2;0;-3