```
f = 126 * x^6 - 54 * x^5 - 28 * x^3 + 12 * x^2 + 14 * x - 6;
       g = -42 * x^5 + 39 * x^4 - 9 * x^3 - 189 * x + 81;
       f // TraditionalForm
Out[210]//TraditionalForm=
       126 x^6 - 54 x^5 - 28 x^3 + 12 x^2 + 14 x - 6
In[66]:= g // TraditionalForm
Out[66]//TraditionalForm=
       -42 x^5 + 39 x^4 - 9 x^3 - 189 x + 81
       PolynomialGCD [f, g]
       (*С помощью встроенной функции
        вычисляем наибольший общий делитель ряда*)
       -3 + 7 x
Out[216]=
       myBezoutPoly[aa_, bb_] := Module[
In[160]:=
                      {a = aa, b = bb}
                           , x0 = 1
                           , xx = 0
                           , y0 = 0
                           , yy = 1
                           , q, r
                      }
             While[
                           Not[SameQ[b, 0]]
                                q = PolynomialQuotient[a, b, x];
                                r = PolynomialRemainder [a, b, x];
                                {a, b} = {b, r};
                                \{x0, xx\} = \{xx, (x0 - xx * q) // ExpandAll\};
                                {y0, yy} = {yy, (y0 - yy * q) // ExpandAll};
                      ];
                      {a, x0, y0}
                 ];
In[225]:= {gcdEuclid, x0, y0} = myBezoutPoly[f, g];
       {wolframGCD, {wolframU, wolframV}} = PolynomialExtendedGCD [f, g, x];
```