```
#include <iostream>
  using std::cin; using std::cout; using std::endl;
# # include < cmath >
   using std::sqrt;
   int main()
6
   {
7
        \texttt{cout} << "Nullstellen_udes_uquadr._Polynoms_f(x)_u=_uA_ux^2u+_uB_ux_u+_uC.\n";
9
        cout << "Bitte_gebe_die_Koeffizienten_A,_B,_C_ein:_";</pre>
        double A, B, C;
10
        cin >> A >> B >> C;
        if (A == 0) // Polynomgrad < 2
13
14
             cout << "Bitte Auungleich Nullueingeben. Abbruch!" << endl;
             return 0;
16
        }
17
18
19
        double diskr= B*B - 4*A*C; // Diskriminante
20
        if (diskr >= 0) // reelle Nullstellen
21
        {
22
             double wurzel= sqrt( diskr);
23
             cout << "Reelle_Nullstellen:" << endl;</pre>
24
             cout << "x1_{\sqcup}=_{\sqcup}" << -B/2/A + wurzel << endl;
25
             cout << "x2_{\sqcup}=_{\sqcup}" << -B/2/A - wurzel << endl;
26
        }
27
        else // komplexe Nullstellen
28
        {
29
             double wurzel= sqrt( -diskr),
30
                 real= -B/2/A,
                                      // Realteil
31
                 imag= wurzel/2/A; // Imaginaerteil
32
             cout << "Komplexe Nullstellen:" << endl;</pre>
33
             cout << "x1" == " << real << "" << imag << "i" << endl;
34
             cout << "x2"=" << real << "" << imag << "i" << endl;
35
        }
36
37
        // Berechnung der Exremstelle;
38
        double ext= -B/2/A; // Extremstelle
39
40
        cout << "An_{\sqcup}der_{\sqcup}Stelle_{\sqcup}x_{\sqcup}=_{\sqcup}" << ext << "_{\sqcup}mit_{\sqcup}f(x)_{\sqcup}=_{\sqcup}"
              << A*ext*ext + B*ext + C
41
              << "ubesitztudasuPolynomuseinu";</pre>
42
        if (A > 0)
43
             cout << "Minimum." << endl;</pre>
44
        else
45
             cout << "Maximum." << endl;</pre>
46
47
        return 0;
48
49
```