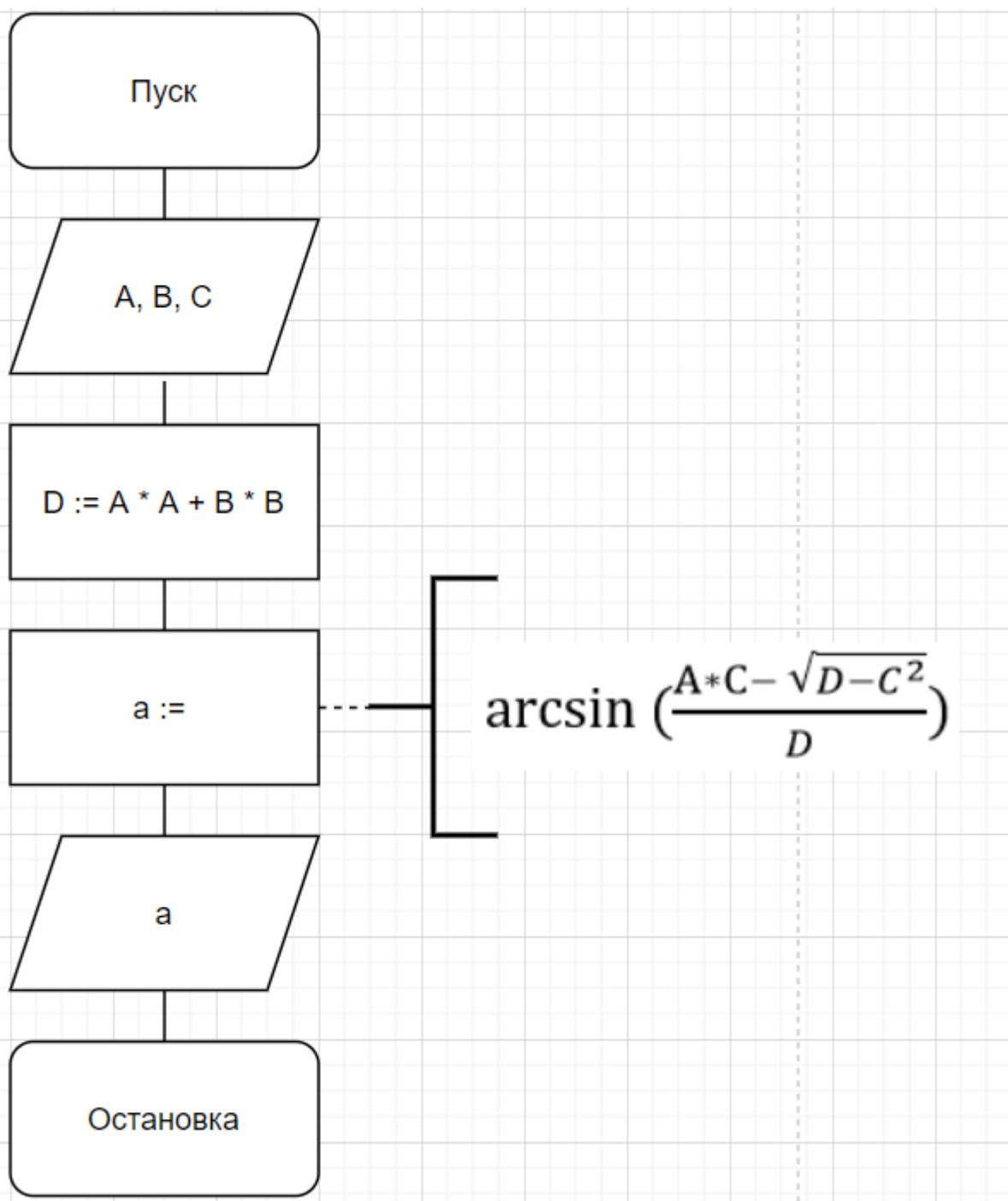


Задание по лекции №2

Выполнил: Шардт МА

Группа: ИВТ-1.1

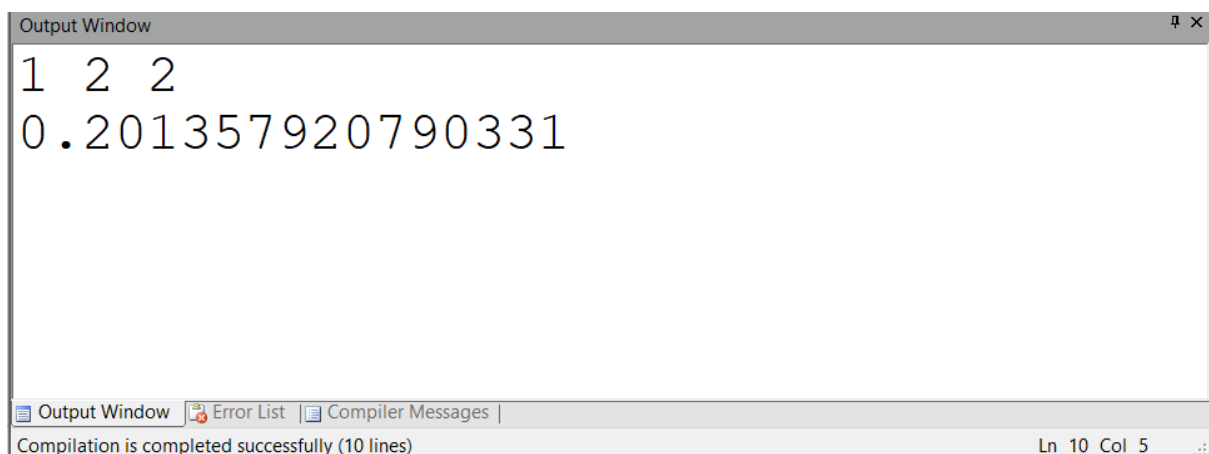
1. Создадим блок-схему алгоритма решения задачи:



И составим по ней программу на языке Pascal ABC:

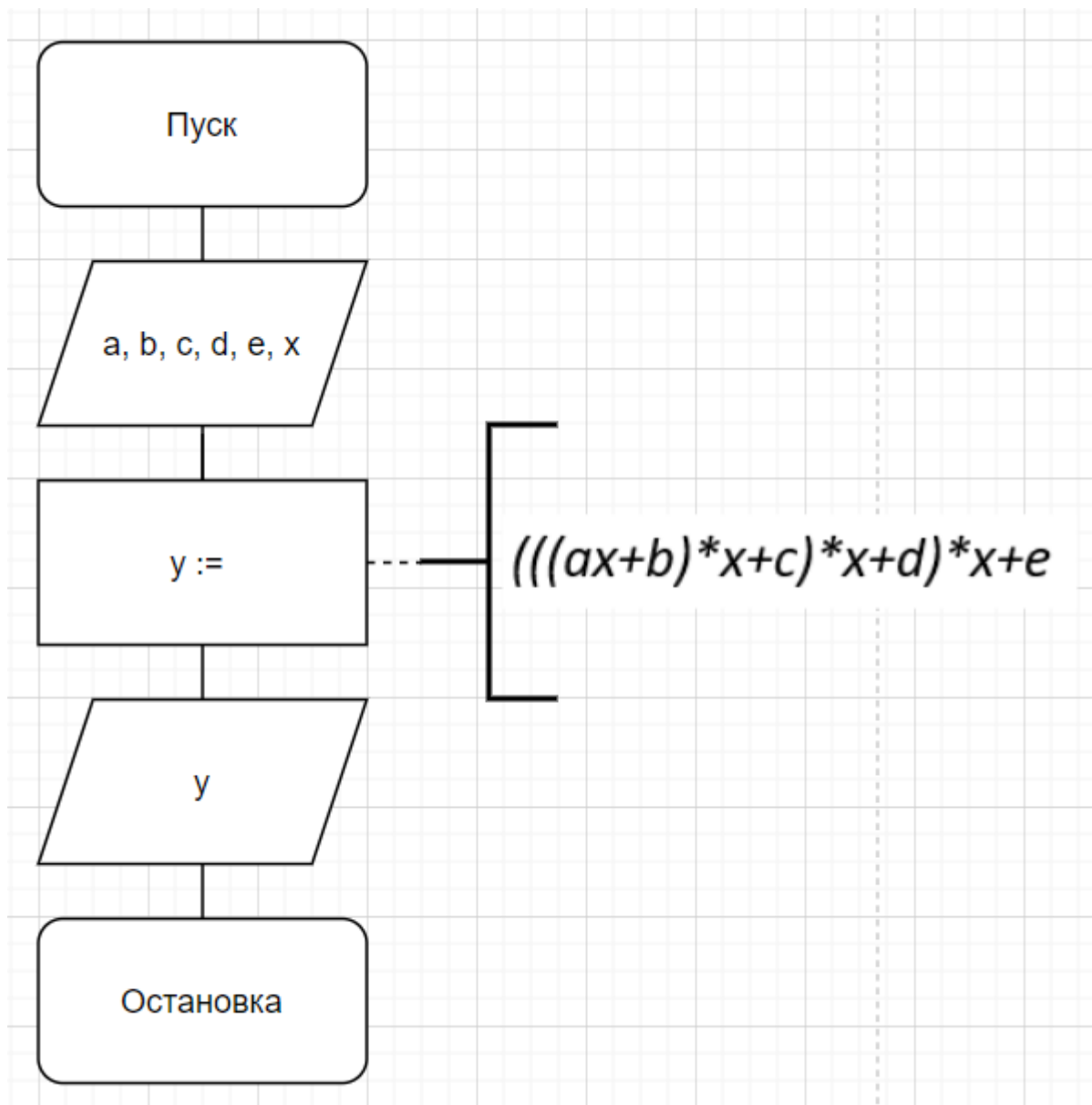
```
program Zad1;  
var  
A, B, C, D:integer;  
a1:real;  
begin  
    readln(A,B,C);  
    D := A*A+B*B;  
    a1 := arcsin((A*C-sqrt(D-C*C))/D);  
    writeln(a1);  
end.
```

В выводе мы получили:



The screenshot shows a software interface with a window titled "Output Window". Inside the window, the output of the program is displayed on two lines: "1 2 2" on the first line and "0.201357920790331" on the second line. Below the output area, there is a status bar with tabs for "Output Window", "Error List", and "Compiler Messages". The status bar also contains the text "Compilation is completed successfully (10 lines)" and the cursor position "Ln 10 Col 5".

2. Составим блок-схему алгоритма решения задачи:



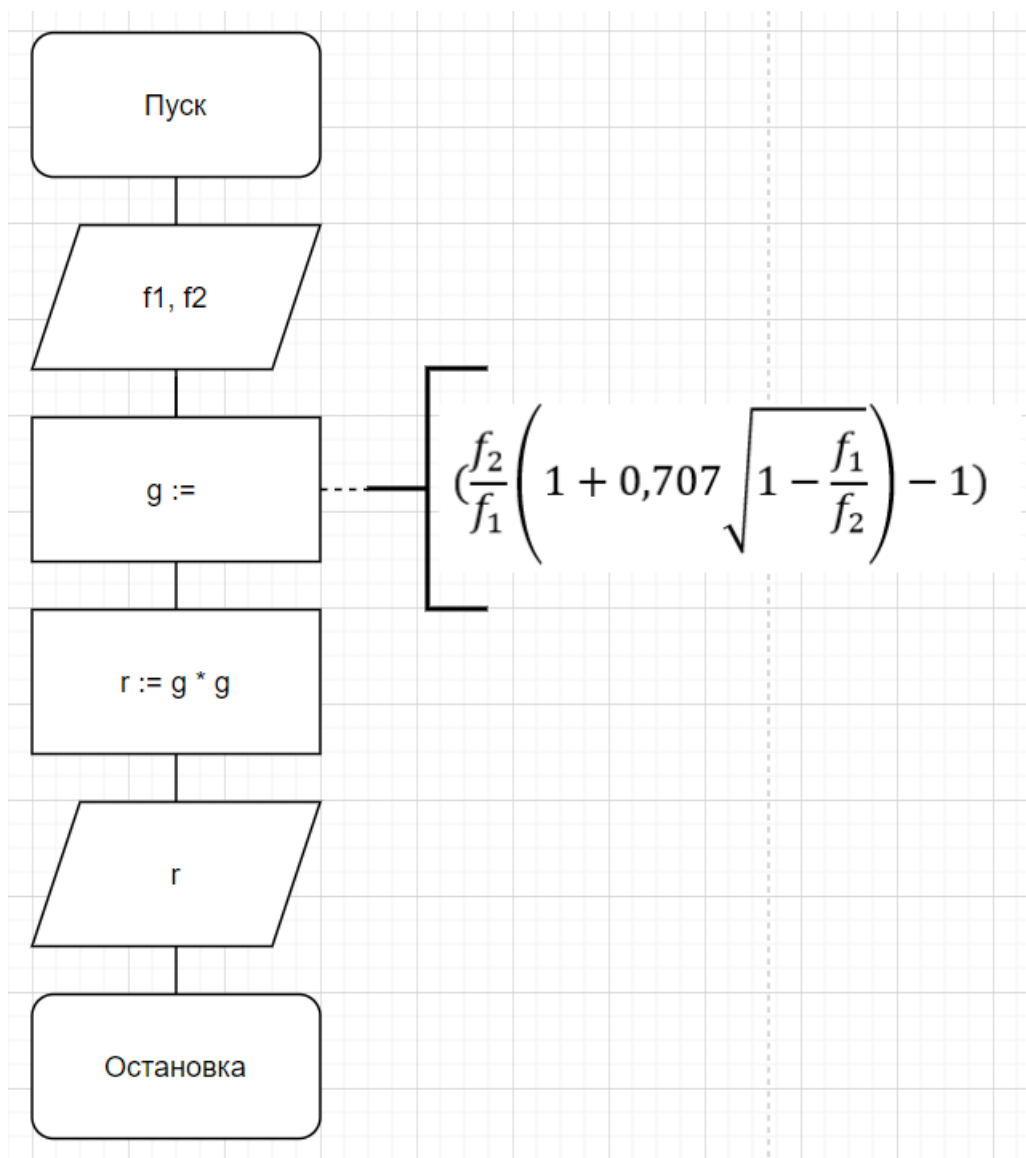
И составим по ней программу:

```
program Zad2;  
var  
a,b,c,d,e,x,y:integer;  
begin  
    readln(a,b,c,d,e,x);  
    y := ((a*x)*x+c)*x+d)*x+e;  
    writeln(y);  
end.
```

В выводе получим:



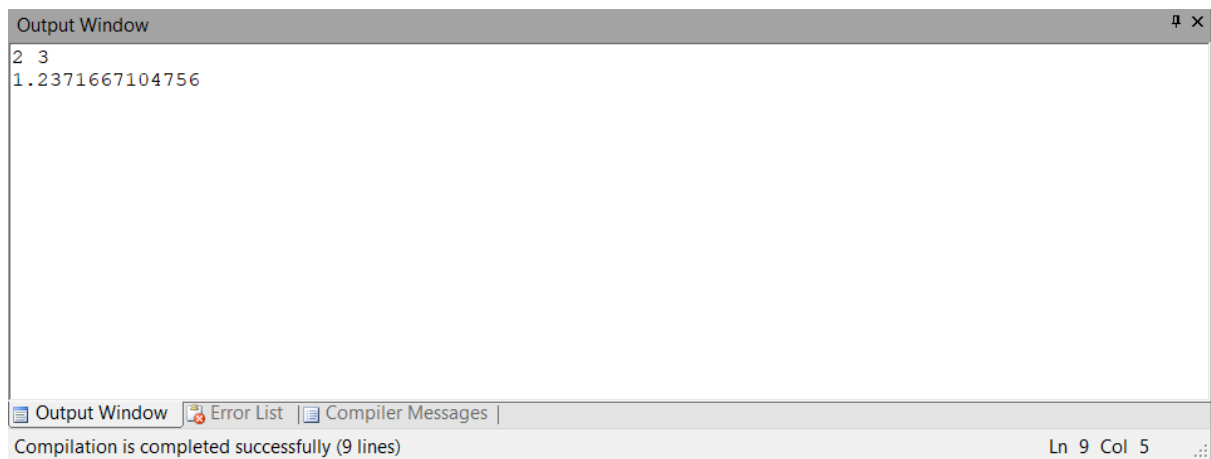
3. Составим блок-схему:



И составим по ней программу:

```
program Zad2;  
var  
f1, f2, g, r: real;  
begin  
  readln(f1, f2);  
  g := (f2/f1 * (1 + 0.707 * sqrt(1 - f1/f2)) - 1);  
  r := g * g;  
  writeln(r);  
end.
```

В выводе получим:



The screenshot shows an IDE's Output Window. The window title is "Output Window". The output text is as follows:

```
2 3  
1.2371667104756
```

At the bottom of the window, there is a status bar with the text "Compilation is completed successfully (9 lines)" and "Ln 9 Col 5". The status bar also includes tabs for "Output Window", "Error List", and "Compiler Messages".