

1-Jadval. 11-misol

11	$A = \left(x \cot g \frac{y}{x^2 + y^2} + \frac{y}{2} \ln(x^2 + y^2) \right)^3 \quad B = \frac{\sin^2(x^2 + y^2) + A + 7,6}{3,2 \cdot 10^{-4} + 2x^2 + \sqrt{x^2 + y^2}}$	$x = 1,32$ $y = -4,6$
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```
#include <iostream>
#include <cmath>
using namespace std;
```

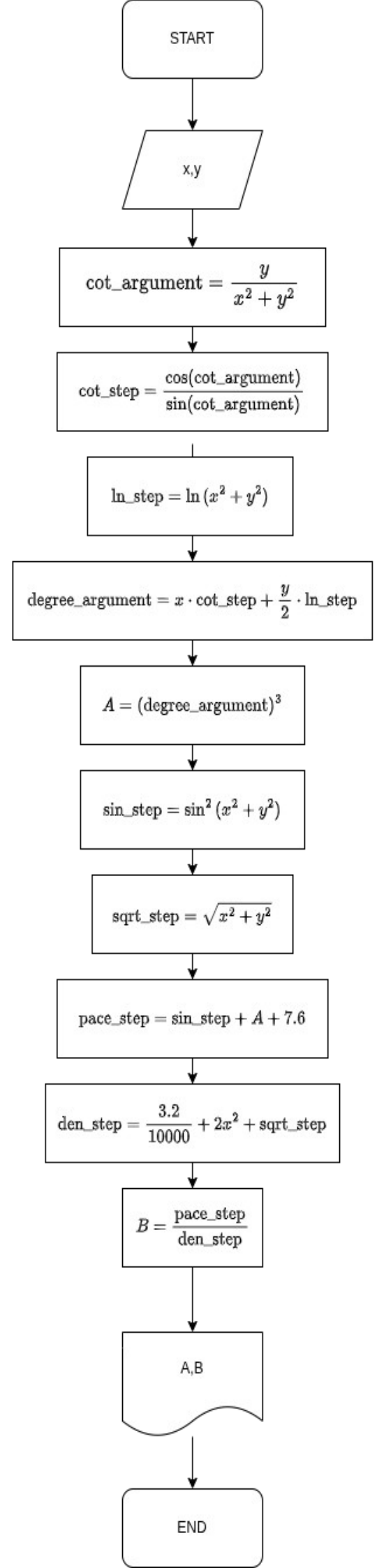
```
int main() {
double x,y,A,B;
cout<<"x=";
cin>>x;
cout<<"y=";
cin>>y;
```

```
double cot_argument =
y/(pow(x,2)+pow(y,2));
double cot_step =
cos(cot_argument)/sin(cot_argument);
double ln_step = log(pow(x,2) +
pow(y,2));
double degree_argument = x*cot_step +
y/2*ln_step;
A = pow(degree_argument,3);
```

```
double sin_step = pow(sin(pow(x,2) +
pow(y,2)),2);
double sqrt_step =
sqrt(pow(x,2)+pow(y,2));
double pace_step = sin_step + A + 7.6;
double den_step = 3.2/10000 +
2*pow(x,2) + sqrt_step;
B = pace_step/den_step;
```

```
cout<<"A="<<A<<endl<<"B="<<B;
return 0;
}
```

[Github](#) Ibrohimov Abdulloh 313-25



2-Jadval. 11-misol

11.	$y = \begin{cases} \frac{a}{a^2 + x} & , \text{ agar } a > 5 \\ \frac{1}{2a^3 + \sin a} & , \text{ agar } a \leq 5 \end{cases}$
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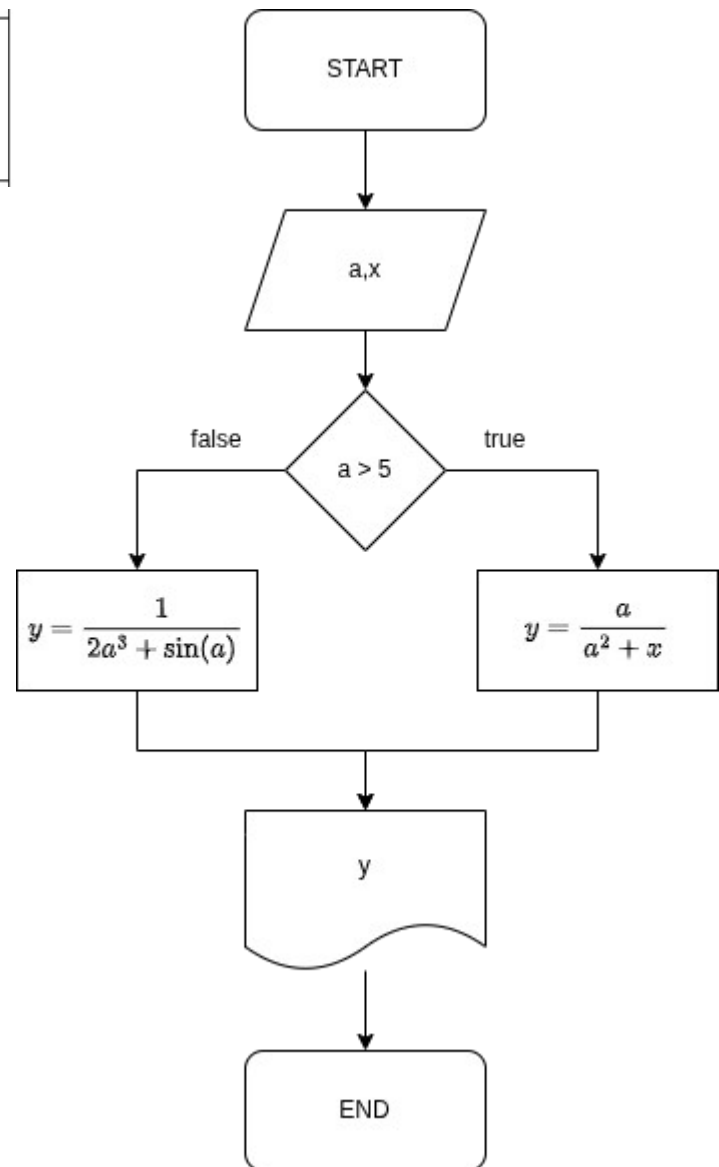
```
#include <iostream>
#include <cmath>
using namespace std;
```

```
int main() {
double a,y,x;
cout<<"a=";
cin>>a;
cout<<"x=";
cin>>x;
if(a > 5){
y = a/(pow(a,2)+x);
} else{
y = 1/(2*pow(a,3)+sin(a));
}
```

```
cout<<y;
```

```
return 0;
}
```

[Github](#)



3-Jadval. 11-misol

11	$y = 2a \sin^5 x^2 + \cos^2 x^3 - bx$	$x = \begin{cases} z^3 + 0.2; & z < 1; \\ z + \ln z; & z \geq 1. \end{cases}$
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```
#include <iostream>
#include <cmath>
using namespace std;
```

```
int main() {
double a,b,y,x,z;
cout<<"a=";
cin>>a;
cout<<"b=";
cin>>b;
cout<<"z=";
cin>>z;
```

```
if(z<1){
x=pow(z,3)+0.2;
}else{
x=z+log(z);
}
```

```
double
first_step=2*a*pow(sin(pow(x,2)),5);
double
second_step=pow(cos(pow(x,3)),2);
y=first_step+second_step-b*x;
```

```
cout<<"y="<<y;
return 0;
}
```

[Github](#)

