## OʻZBEKISTON RESPUBLIKASI QURILISH VAZIRLIGI TOSHKENT ARXITEKTURA – QURILISH INSTITUTI QURILISHNI BOSHQARISH FAKULTETI "AXBOROT TEXNOLOGIYALARI" KAFEDRASI

# «QURILISHDA AXBOROT TEXNOLOGIYALARI» fanidan

# 2-HISOB GRAFIK ISHI

MAVZU: C++ dasturlash tilida masalalarni dasturini tuzish

Bajardi:	·
Guruh:	
Tekshirdi:	

## Reja

Nazariy qism

1 masala( izoh: masala sharti yoziladi)

2 masala(masala sharti yoziladi)

3 masala(masala sharti yoziladi)

Xulosa

### 1. Butun sonlarga oid masalalar

$$Z = \frac{a}{a * \varphi * (R + \mu b * r)};$$
 здесь  $a = \frac{3r^2}{R^2 - r^2}, b = \frac{R^2 + r^2}{R^2 - r^2};$ 

#### Dastur kodi

```
#include <iostream>
#include <math.h>
using namespace std;
int main()
   float Z,a,f,u,b,r,R;
   cout<<"f ni kiriting f=";</pre>
   cin>>f;
   cout<<"u ni kiriting u=";</pre>
   cin>>u;
   cout<<"R ni kiriting R=";</pre>
   cin>>R;
   cout<<"r ni kiriting r=";</pre>
   cin>>r;
   a=(3*pow(r,2))/(pow(R,2)-pow(r,2));
   b = (pow(R,2) + pow(r,2)) / (pow(R,2) - pow(r,2));
   Z=a/(a*f*(R+u*b*r));
   cout<<"Result Z="<<Z;</pre>
   return 0;
```

#### Dastur Natijasi:

```
H Save
              ► Run
                       O Debug
                                    Stop
                                             C Share
                                                                                   ₹
main.cpp
    3 using namespace std;
    4 int main()
    5 - [
             float Z,a,f,u,b,r,R;
cout<<"f ni kiriting f=";</pre>
             cin>>f;
cout<<"u ni kiriting u=";</pre>
             cin>>u;
             cout<<"R ni kiriting R=";</pre>
   11
             cin>>R;
cout<<"r ni kiriting r=";</pre>
   12
             cin>>r;
             a=(3*pow(r,2))/(pow(R,2)-pow(r,2));
b=(pow(R,2)+pow(r,2))/(pow(R,2)-pow(r,2));
Z=a/(a*f*(R+u*b*r));
             cout<<"Result Z="<<Z;</pre>
             return 0;
   22 }
   23
❤ '^ '.∰
f ni kiriting f=2
                                                                                   input
u ni kiriting u=1.8
R ni kiriting R=3
r ni kiriting r=1.5
Result Z=0.0666667
...Program finished with exit code 0
Press ENTER to exit console.
```

```
y = \begin{cases} x^2 - 7, x \ge -3 \\ 56/(x^2 - 7), x < -3 \end{cases}
```

#### Dastur kodi

```
#include <iostream>
#include <math.h>
using namespace std;
int main()
{
    float x,y;
    cout<<"x ni kiriting x=";
    cin>>x;
    if(x>=3) {
        y=pow(x,2)-7;
    }
    else{
        y=56/(pow(x,2)-7);
    }
    cout<<"Result y="<<y;
    return 0;
}</pre>
```

Dastur natijasi:

```
■ Stop  Share  Save
                                                                     { } Beautify
              ▶ Run O Debug
 main.cpp
    1 #include <iostream>
    #include <math.h>
using namespace std;
int main()
    5 - {
             float x,y;
cout<<"x ni kiriting x=";
cin>>x;
if(x>=3){
    y=pov(x,2)-7;
}
             }
else{
                  y=56/(pow(x,2)-7);
             cout<<"Result y="<<y;</pre>
             return 0;
   17 }
input
Result y=9
...Program finished with exit code 0
Press ENTER to exit console.
```

```
3 \qquad y = 2x3 + \sqrt[3]{x+1}
```

 $X \in [-2,0]; \Delta x = 0,2$ 

#### Dastur kodi

```
#include <iostream>
#include <math.h>
using namespace std;
int main()
   float y;
   for(float x=-2;x<=0; x+=0.2){</pre>
       y=2*pow(x,3)+pow((x+1),1/3);
   cout<<"Result y="<<y;</pre>
   return 0;
```

#### Dastur Natijasi

```
main.cpu

#include <iostream>
#include <math.h>
using namespace std;
int main()

float y;
for(float x=-2;x<=0; x+=0.2){

y=2*por(x,3)+por((x+1),1/3);
}

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

Result y=0.984
...Program finished with exit code 0

Press ENTER to exit console.
```

```
y = \prod_{i=1}^{6} b_i^2 / x_i
```

```
#include <iostream>
#include <stdlib.h>
#include <time.h>
#include <math.h>
using namespace std;
int main()
   srand(time(NULL));
   int b[6],x[6];
   float P=1;
   for(int i=0; i<=5;i++){</pre>
      b[i]=rand()%100+1;
      x[i]=rand()%100+1;
      P*=pow(b[i],2)/x[i];
   cout<<"Result P="<<P;</pre>
   return 0;
```

#### Dastur natijasi: