

1. a)

```
1 #include <cstdlib>
2 #include <iostream>
3 /* Napisati program u C++ koji:racuna otpornost bakarnog provodnika po obrascu:
4  $R_{Cu} = R_0 \cdot L/S$  ;  $R_0 = 1,588 \cdot 10^{-8}$  ; L-dužina u mm ;
5  $s = r^2 \cdot \pi$  -ovršina presjeka ; r-poluprečnik provodnika;
6 Pi,14
7 */
8 using namespace std;
9
10 int main()
11 {
12     const float Pi=3.14,Ro=1.599E-8;
13     float S,L,Rcu,r;
14     cout<<"Unesite duzinu provodnika\n";
15     cin>>L;
16     cout<<"Unesite presjek\n";
17     cin>>r;
18     S=r*r/Pi;
19     Rcu=Ro*L/S;
20     cout<<"Otpornost je:"<<Rcu<<"oma\n";
21
22     system("PAUSE");
23     return 0;
24 }
```

6)

```
1 #include <cstdlib>
2 #include <iostream>
3 /*b)racuna zbir cifara trocifrenog broja */
4 using namespace std;
5
6 int main()
7 {
8     int a,b,c,s,br;
9     do
10     {
11         cout<<"Unesi trocifren broj br=";
12         cin>>br;
13     }while(float(br-br*10/10)>0 || br<100 || br>1000 );
14     a=br/100;
15     b=br/10%10;
16     c=br%10;
17     s=a+b+c;
18     cout<<"Suma je:"<<a<<"+"<<b<<"+"<<c<<" = "<<s<<endl;
19     system("PAUSE");
20     return 0;
21 }
```

2. a)

```
1 #include <cstdlib>
2 #include <iostream>
3
4 using namespace std;
5
6 int main()
7 {
8     float x,y;
9     cout<<"Unesite x:\n";cin>>x;
10    if(x<0)
11        y=-5;
12    else if(x>=0 && x<1)
13        y=x+1;
14    else if(x>=1 && x<5)
15        y=2*x-1;
16    else
17        y=2*x;
18    cout<<"\ny="<<y<<endl;
19    system("PAUSE");
20    return 0;
21 }
```

6)

```
1 #include <cstdlib>
2 #include <iostream>
3
4 using namespace std;
5
6 int main()
7 {
8     float x,y,z;
9     cout<<"Unesite x:\n";cin>>x;
10    cout<<"Unesite y:\n";cin>>y;
11    float min=(x<y?x:y);
12    if(min==1)
13    {
14        cout<<"Nazivnik je nula-a sa nulom nije dozvoljeno dijeliti\n";
15        system("PAUSE");
16        return 1;
17    }
18    else
19    {
20        z=(x>y?x:y)/(1-min);
21        cout<<"\nz="<<z<<endl;
22    }
23    system("PAUSE");
24    return 0;
25 }
```

