1. $z = \begin{cases} 2x+1 & for\ x \ge y \\ x+y & for\ x < y \end{cases}$

```cpp
#include <iostream>
using namespace std;
int main()
{
                double x,y,z;
                cout << "Number x=";
                cin >> x;
                cout << "\nNumber y=";
                cin >> y;
                if (x>=y)
                    z=2*x+1;
                else
                    z=x+y;
                cout << "\nResult z=";
                cout << z
                    << "\n";

cin.get(); cin.get();
return 0;
}
```

2. $y = \begin{cases} 5x+4 & for\ x < 1.5 \\ x-3 & for\ 1.5 \le x < 2.7 \\ 5 & for\ 2.7 \le x < 4 \\ 2x & for\ x \ge 4 \end{cases}$

```cpp
#include <iostream>
using namespace std;
int main()
{
    float x,y;
    cout << "Number x=";
    cin >> x;
    if (x<1.5)
            y=5*x+4;
    else
            if (x<2.7)
                    y=x-3;
            else
                    if (x<4)
                            y=5;
                    else
                            y=2*x;
    cout << "\nResult y=";
    cout << y
            << endl;

cin.get(); cin.get();
return 0;
}
```