

```
#include <iostream>
#include <stdlib.h>
#include <stdio.h>
#include <math.h>
using namespace std;
```

```
int main()
```

```
{
```

```
    while (1)
```

```
    {
```

```
        float x;
```

```
        scanf_s("%f", &x);
```

```
        if(x<-1)
```

```
        {
```

```
            x = 2 / (pow(x, 2) + 1);
```

```
            printf("%.2f", x);
```

```
        }
```

```
        else if (-1<=x && x<4)
```

```
        {
```

```
            x = abs(x+5);
```

```
            printf("%.2f", x);
```

```
        }
```

```
        else if (x >= 4)
```

```
        {
```

```
            x = sqrt(4 * x + 2);
```

```
printf("%.2f", x);
```

```
}
```

```
}
```

```
}
```