Functions | Similar to the ones you've seen in moth class: Mah. $f:R \rightarrow R$ $f(x) = ax^2 + bx + c$ class $\frac{111}{111}$ a,b,c. C/C++ double f (double); double f (double x) 6 utput in put type [// rules for computing fix). double r; r=axxxx; 1= r + b*x +c; return r; Diffaences us mit functions: D'Side-effects". Functions might do extra States, e.g. printing nessages, or modifying global State. 2) (At functions night not produce the same result every time! int a = 3; // defined outs ide all functions ->int f(int n)
{
a+t;
return n+a;

int main () "function call" int n = 7; _> cout << f(7), << '' \n''; // 11 (out << f(7) << 9 \n"; // 12 Scope, by value by reference pava as. int main () void f(int a) $\{$ int $\times = 23;$ f(x); (out << × << "\n"; void g (int& a) 1/prints 23 a++; cout << x << ""; // 24 / "by value" 23 x,a "by reference"

What about multiple parameters?

f: RXIR -> IR | double f(double, double);

input

f: R -> RXIR | Void f (double, double L, dauble L);

output!