## Mathematical Functions

```
1  // Mathematical Functions
2
3  #include<iostream>
4  #include<cmath>     // Include math library
5
6  using namespace std;
7
8  int main ()
9  {
10     double x = 0.50;
11
12     cout << "x = " << x << endl;
13
14     // calculates x^3
15     cout << "pow(x, 3) = " << pow(x, 3)<< endl;
16
17     // square root of x
18     cout << "sqrt(x) = " << sqrt(x) << endl;
19
20     // sine of x, x is assumed radian
21     cout << "sin(x) = " << sin(x) << endl;
22
23     // sine inverse of x, answer is in radian also
24     cout << "asin(x) = " << asin(x) << endl;
25
26     // log base e of x
27     cout << "log(x) = " << log(x) << endl;
28
29     // log base 10 of x
30     cout << "log10(x) = " << log10(x) << endl;
31
32     return 0;
33 }
```

*Output*

```
1  x = 0.5
2  pow(x, 3) = 0.125
3  sqrt(x) = 0.707107
4  sin(x) = 0.479426
5  asin(x) = 0.523599
6  log(x) = -0.693147
7  log10(x) = -0.30103
```