```cpp
 1  #include <iostream>
 2  #include "A7CH.h"
 3
 4  using namespace std;
 5
 6  int main() {
 7      // Try the constructor
 8      v2d<double> v1(3.4, 0.7);
 9      v2d<int> v2(0, -4);
10      v2d<double> v3(3, 2);
11
12      // Try the copy constructor
13      v2d<int> v4(v2);
14
15      // Try the overloaded operator
16      cout << "v1 = " << v1 << endl;
17      cout << "v2 = " << v2 << endl;
18      cout << "v3 = " << v3 << endl;
19      cout << "v4 = " << v4 << '\n' << endl;
20
21      // Try other operators
22      cout << "v2 + v4 : "        << v2 + v4 << endl;
23      cout << "v2 : "             << v2      << '\n' << endl;
24      cout << "v1 * v3 : "        << v1 * v3 << '\n' << endl;
25      cout << "v1 * k (k = 4) : " << v1 * 4  << endl;
26      cout << "v1 : "             << v1      << endl;
27
28      return 0;
29  }
```