Homework2_1

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Code :

```cpp
#include<iostream>
using namespace std;
int main(){
    double x1;
    double x2;
    double y1;
    double y2;
    cout << "Please input the coordinates of first points :";
    cin >> x1 >> y1;
    cout << "Please input the coordinates of second points :";
    cin >> x2 >> y2;
    double x3 = (x1 + x2)/2;
    double y3 = (y1 + y2)/2;
    cout << "The coordinates of the midpoint is : (" << x3 << "," << y3 << ")";
    return 0;
}
//This code is created by Hanlin Cai
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```

First Point	Second Point	Midpoint
(4,6)	(16,18)	
(22,3)	(8,12)	
(-10,8)	(14,4)	
(-12,2)	(14,3.1)	
(3.1,-6)	(20,16)	
(3.1,-6)	(-16,-18)	

Answer:

The coordinate of the midpoint is: (10,12)
The coordinate of the midpoint is: (15,7.5)
The coordinate of the midpoint is: (2,6)
The coordinate of the midpoint is: (1, 2.55)
The coordinate of the midpoint is : (11.55,5)
The coordinate of the midpoint is : (-6.45,-12)