**Homework2\_1**

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**Code :**

#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

//MU number : 20122161

//FZU number : 832002117

表格

描述已自动生成**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)

**Homework2\_2**

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**Code :**

#include<iostream>

#include <math.h>

using namespace std;

int main(){

double battery;

double resistor;

//double capacitor;

double time;

double RC;

double current;

cout << "Please input related circuit parameters : " << endl;

cout << "voltage = ";

cin >> battery;

cout << "R = ";

cin >> resistor;

cout << "RC = ";

cin >> RC;

cout << "t = ";

cin >> time;

current = (battery/resistor)\*pow(2.71828, -(time/RC));

cout << "Current = " << current << endl;

return 0;

}

//This code is created by Hanlin Cai

//MU number : 20122161

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**Question a:**

Set 1 : Current = 1.1858

Set 2 : Current = 2.30254

**Question b:**

表格

描述已自动生成

**Answer:**

Current = 1.75991

Current = 0.223748

Current = 0.0195509

Current = 1.2281

Current = 0.673994

Current = 1.32796

Current = 5.09216e-05