TASK 1 OF LABA 4

#include <math.h>

#include <iostream>

#include <stdio.h>

#include <stdlib.h>

using namespace std;

int main()

{

setlocale(LC\_ALL, "Rus");

const double PI = 3.14;

double a, r;

cout << "Введите значение угла в градусах" << endl;

cin >> a;

if ( a <= 360 && a >= 0)

{

r = a \* (PI / 180);

cout << "Значение угла в радианах = " << r << endl;

return (0);

}

else {

cout << "Error" << endl;

return (0);

}

}  
  
  
TASK 2 OF LABA 4  
  
#include <math.h>

#include <iostream>

#include <stdio.h>

#include <stdlib.h>

using namespace std;

int main()

{

setlocale(LC\_ALL, "Rus");

const double PI = 3.14;

double a, r;

cout << "Введите значение угла в радианах" << endl;

cin >> r;

if ( r <= 720 && r >= 0)

{

a = (r \* 180) / PI;

cout << "Значение угла в радианах = " << a << endl;

return (0);

}

else {

cout << "Error" << endl;

return (0);

}

}  
  
TASK 3 OF LABA 4  
  
#include <math.h>

#include <iostream>

#include <stdio.h>

#include <stdlib.h>

#include <sstream>

using namespace std;

int main()

{

setlocale(LC\_ALL, "Rus");

int x, a, x1, y, a1;

cin >> x;

cin >> a;

x1 = a / x;

cin >> y;

a1 = x1 \* y + x1;

cout << a1 << endl;

}  
  
  
TASK 4 OF LABA 4

#include <math.h>

#include <iostream>

#include <stdio.h>

#include <stdlib.h>

#include <sstream>

using namespace std;

int main()

{

setlocale(LC\_ALL, "Rus");

double x1, x2, s, t, p;

cin >> x1 >> x2 >> s >> t;

p = abs(s - ((x1 - x2) \* t));

cout << p << endl;

return (0);

}  
  
TASK 5 OF LABA 4  
  
#include <math.h>

#include <iostream>

#include <stdio.h>

#include <stdlib.h>

#include <sstream>

using namespace std;

int main()

{

setlocale(LC\_ALL, "Rus");

double a, x, b, s;

cout << "Введите A" << endl;

cin >> a;

cout << "Введите x" << endl;

cin >> x;

cout << "Введите B" << endl;

cin >> b;

s = a \* x + b;

a = (-b) / x;

x = (-b) / a;

b = (-a \* x);

cout << s << endl << a << endl << x << endl << b << endl;

}  
  
  
TASK 6 OF LABA 4  
  
#include <math.h>

#include <iostream>

#include <stdio.h>

#include <stdlib.h>

#include <sstream>

using namespace std;

int main()

{

setlocale(LC\_ALL, "Rus");

double A1, B1, C1, A2, B2, C2, d;

cout << "Введите A1,B1 и C1" << endl;

cin >> A1 >> B1 >> C1;

cout << "Введите A2,B2 и C2" << endl;

cin >> A2 >> B2 >> C2;

d = A1 \* B2 - A2 \* B1;

cout << "x = " << ((C1 \* B2 - C2 \* B1) / d);

cout << "y = " << ((A1 \* C2 - A2 \* C1) / d);

return (0);

}