Программный код:

#define \_CRT\_SECURE\_NO\_WARNINGS

#include <stdio.h>

#include <stdlib.h>

#include <math.h>

#include <conio.h>

\_Bool isInArea(double x, double y)

{

int flag = 0;

if ((x\*x + y \* y <= 1) && ((x >= 0 && y <= 0)) || ((x<=0 && y>=0)) )

flag = 1;

return flag;

}

double f(double x)

{

return (x >= 1.1) ? 9-x : sin(3\*x)/(pow(x,4)+1);

}

int main(void)

{

printf("1. Popadanie\n");

printf("2. Sistema\n");

int input;

scanf("%d", &input);

switch (input)

{

float x, y, r;

case 1:

printf("%s\n", "Vvodi koordinati (x,y):");

scanf("%f%f", &x, &y);

if (isInArea(x, y) == 1) printf("%s\n", "Popal.");

else printf("%s\n", "Ne popal.");

\_getch();

return 0;

break;

case 2:

printf("%s\n", "Vvodi (x):");

scanf("%f", &x);

r = f(x);

printf("\nRes = %f", r);

\_getch();

return 0;

break;

default:

printf("Nepravil'no vvel ejje");

break;

}

getchar();

getchar();

return 0;

}