/\*

tan(x) = 0

x = 0, 180, 360,...

tan(x) = undef

x = 90, 270, 450...

\*/

using System;

class YOD3 {

public static void Main() {

double t1, t2, a = 30, x = 1, b = 1;

for (;;) {

Console.WriteLine("Enter value of a (except zero):");

a = Int32.Parse(Console.ReadLine());

if (a != 0) break;

}

Console.WriteLine("Enter value of b:");

b = Int32.Parse(Console.ReadLine());

for (;;) {

Console.WriteLine("Enter value of x (except zero, a\*x != 90\*k):");

x = Int32.Parse(Console.ReadLine());

if (x > 0 && (a\*x % 90) != 0) break;

}

double rad = ConvertDegreesToRadians(a\*x);

double rad2 = ConvertDegreesToRadians(a\*x/2);

t1 = 2/(35\*a\*a) \* (5\*Math.Pow(x, 2.5) - 7\*b\*Math.Pow(x, 3.5));

t2 = Math.Sin(rad)/(2\*Math.Pow(Math.Cos(rad),2)) + Math.Log(Math.Tan(rad2))/2;

Console.WriteLine("\nFor values a = {0}, b = {1}, x = {2}\nwe get result\nt1 = {3}\nt2 = {4}", a, b, x, t1, t2);

}

public static double ConvertDegreesToRadians (double degrees)

{

double radians = (Math.PI / 180) \* degrees;

return (radians);

}

}