clc;

f = inline('(x^2)/(y^2 + 1)');

x1 = input('Enter the value of X1 = ');

y1 = input('Enter the value of Y1 = ');

xn = input('Enter the value of Xn = ');

h = input('Enter the value of h = ');

while x1 < xn

K1 = h\*f(x1,y1);

K2 = h\*f(x1+(h/2),y1+(K1/2));

K3 = h\*f(x1+(h/2),y1+(K2/2));

K4 = h\*f((x1+h),(y1+K3));

K = (K1 + 2\*K2 + 2\*K3 + K4)/6;

y1 = y1 + K;

x1 = x1 + h;

end

fprintf('%f, %f\n',x1, y1)

%OUTPUT

Enter the value of X1 = 0

Enter the value of Y1 = 0

Enter the value of Xn = 1

Enter the value of h = 0.25

1.000000, 0.322160