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, y1+K1);

K = (K1+K2)/2;

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, 0.331938