*Ejercicio 1  y=2y-1*

| | | |
|---|---|---|
| x0 | 0 | |
| x1 | 3 | |
| num segmentos | 20 | |
| h | 0.15 | |
| | y=2y-1 | |
| x | y | f(xi) |
| 0 | 0 | -1 |
| 0.15 | -0.15 | -1.3 |
| 0.3 | -0.345 | -1.69 |
| 0.45 | -0.5985 | -2.197 |
| 0.6 | -0.92805 | -2.8561 |
| 0.75 | -1.356465 | -3.71293 |
| 0.9 | -1.913405 | -4.826809 |
| 1.05 | -2.637426 | -6.274852 |
| 1.2 | -3.578654 | -8.157307 |
| 1.35 | -4.80225 | -10.6045 |
| 1.5 | -6.392925 | -13.78585 |
| 1.65 | -8.460802 | -17.9216 |
| 1.8 | -11.14904 | -23.29809 |
| 1.95 | -14.64376 | -30.28751 |
| 2.1 | -19.18688 | -39.37376 |
| 2.25 | -25.09295 | -51.18589 |
| 2.4 | -32.77083 | -66.54166 |
| 2.55 | -42.75208 | -86.50416 |
| 2.7 | -55.7277 | -112.4554 |
| 2.85 | -72.59601 | -146.192 |
| 3 | -94.52482 | -190.0496 |

```
Enter initial value of x i.e. x0: 0

Enter initial value of y i.e. y0: 0

Enter the final value of x: 3

Enter the step length h: 0.15

x         y
0.000   0.000
0.150   -0.150
0.300   -0.345
0.450   -0.599
0.600   -0.928
0.750   -1.356
0.900   -1.913
1.050   -2.637
1.200   -3.579
1.350   -4.802
1.500   -6.393
1.650   -8.461
1.800   -11.149
1.950   -14.644
2.100   -19.187
2.250   -25.093
2.400   -32.771
2.550   -42.752
2.700   -55.728
2.850   -72.596
3.000   -94.525 >>
```

## *Ejercicio 2  y=0.1x-3y^0.5*

| | | |
|---|---|---|
| x0 | 0 | |
| x1 | 3 | |
| num segmentos | 20 | |
| h | 0.15 | |
| | y=0.1x-3y^0.5 | |
| x | y | f(xi) |
| 0 | 0 | 0 |
| 0.15 | 0 | 0.015 |
| 0.3 | 0.00225 | -0.112302 |
| 0.45 | -0.014595 | #¡NUM! |
| 0.6 | #¡NUM! | #¡NUM! |
| 0.75 | #¡NUM! | #¡NUM! |
| 0.9 | #¡NUM! | #¡NUM! |
| 1.05 | #¡NUM! | #¡NUM! |
| 1.2 | #¡NUM! | #¡NUM! |
| 1.35 | #¡NUM! | #¡NUM! |
| 1.5 | #¡NUM! | #¡NUM! |
| 1.65 | #¡NUM! | #¡NUM! |
| 1.8 | #¡NUM! | #¡NUM! |
| 1.95 | #¡NUM! | #¡NUM! |
| 2.1 | #¡NUM! | #¡NUM! |
| 2.25 | #¡NUM! | #¡NUM! |
| 2.4 | #¡NUM! | #¡NUM! |
| 2.55 | #¡NUM! | #¡NUM! |
| 2.7 | #¡NUM! | #¡NUM! |
| 2.85 | #¡NUM! | #¡NUM! |
| 3 | #¡NUM! | #¡NUM! |

```
Enter initial value of x i.e. x0: 0

Enter initial value of y i.e. y0: 0

Enter the final value of x: 3

Enter the step length h: 0.15

 x         y
0.000   0.000
0.150   0.000
0.300   0.002
0.450   -0.015
0.600   -0.008
0.750   -0.068
0.900   -0.078
1.050   -0.131
1.200   -0.145
1.350   -0.192
1.500   -0.205
1.650   -0.246
1.800   -0.257
1.950   -0.293
2.100   -0.301
2.250   -0.331
2.400   -0.336
2.550   -0.361
2.700   -0.362
2.850   -0.383
3.000   -0.379 >>
```

## *Ejercicio 3  y=xy+xy^2*

| | | | |
|---|---|---|---|
| x0 | 0 | | |
| x1 | 3 | | |
| num segmento | 20 | | |
| h | 0.15 | | |
| | | y=xy+xy^2 | |
| x | y | f(xi) | |
| 0 | 0 | 0 | |
| 0.15 | 0 | 0 | |
| 0.3 | 0 | 0 | |
| 0.45 | 0 | 0 | |
| 0.6 | 0 | 0 | |
| 0.75 | 0 | 0 | |
| 0.9 | 0 | 0 | |
| 1.05 | 0 | 0 | |
| 1.2 | 0 | 0 | |
| 1.35 | 0 | 0 | |
| 1.5 | 0 | 0 | |
| 1.65 | 0 | 0 | |
| 1.8 | 0 | 0 | |
| 1.95 | 0 | 0 | |
| 2.1 | 0 | 0 | |
| 2.25 | 0 | 0 | |
| 2.4 | 0 | 0 | |
| 2.55 | 0 | 0 | |
| 2.7 | 0 | 0 | |
| 2.85 | 0 | 0 | |
| 3 | 0 | 0 | |

```
Enter initial value of x i.e. x0: 0

Enter initial value of y i.e. y0: 0

Enter the final value of x: 3

Enter the step length h: 0.15

 x         y
0.000   0.000
0.150   0.000
0.300   0.000
0.450   0.000
0.600   0.000
0.750   0.000
0.900   0.000
1.050   0.000
1.200   0.000
1.350   0.000
1.500   0.000
1.650   0.000
1.800   0.000
1.950   0.000
2.100   0.000
2.250   0.000
2.400   0.000
2.550   0.000
2.700   0.000
2.850   0.000
3.000   0.000 >>
```