

```
disp('Grupo 1')
Grupo 1
disp('NRC: 7543')
NRC: 7543
date
```

```
ans =

    '15-Feb-2022'
```

```
clock
```

```
ans =

    1.0e+03 *

    2.0220    0.0020    0.0150    0.0230    0.0400    0.0284
```

```
clc
[I,F,Er,Ea,Rt] = fintg('(3*x.^3-x.^2+2*x-4)/((x.^2-
3*x+2).^(1/2))',0,0.99,7);
Columns 1 through 6

    0    0.1414    0.2829    0.4243    0.5657    0.7071

Columns 7 through 8

    0.8486    0.9900
```

```
[ Warning: Function behaves unexpectedly on array inputs. To improve
performance, properly vectorize your function to return an output
with the same size and shape as the input arguments.]
```

```
[ > In matlab.graphics.function.FunctionLine>getFunction
In matlab.graphics.function/FunctionLine/updateFunction
In matlab.graphics.function.FunctionLine.set.Function_I
In matlab.graphics.function.FunctionLine.set.Function
In matlab.graphics.function.FunctionLine
In <a
href="matlab:matlab.internal.language.introspective.errorDocCallback('fplot>singleFplot', 'C:\Program
Files\Polyspace\R2020a\toolbox\matlab\graphics\function\fplot.m', 245)"
style="font-weight:bold">fplot>singleFplot</a> (<a href="matlab:
opentoline('C:\Program
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line 245</a>)
In <a
href="matlab:matlab.internal.language.introspective.errorDocCallback('fplot>@(f)singleFplot(cax,{f},limits,extraOpts,args)', 'C:\Program
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style="font-
weight:bold">fplot>@(f)singleFplot(cax,{f},limits,extraOpts,args)</a> (<a
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In <a
href="matlab:matlab.internal.language.introspective.errorDocCallback('fplot>vectorizeFplot', 'C:\Program
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```

```

style="font-weight:bold">fplot>vectorizeFplot</a> (<a href="matlab:
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line 200</a>)
In <a
href="matlab:matlab.internal.language.introspective.errorDocCallback('fpl
ot', 'C:\Program
Files\Polyspace\R2020a\toolbox\matlab\graphics\function\fplot.m', 166)"
style="font-weight:bold">fplot</a> (<a href="matlab:
opentoline('C:\Program
Files\Polyspace\R2020a\toolbox\matlab\graphics\function\fplot.m',166,0)">
line 166</a>)
In <a
href="matlab:matlab.internal.language.introspective.errorDocCallback('fin
tg', 'C:\Users\ismae\OneDrive\Documentos\MATLAB\Met.
Numericos\Grupal\Integracion Numerica\fintg.m', 43)" style="font-
weight:bold">fintg</a> (<a href="matlab:
opentoline('C:\Users\ismae\OneDrive\Documentos\MATLAB\Met.
Numericos\Grupal\Integracion Numerica\fintg.m',43,0)">line 43</a>)]
Trapezio simple
a: 0.000000,b: 0.141429, n: 7
Simpson 3/8 Compuesto
a: 0.000000,b: 0.990000, n: 6
Columns 1 through 6

    0    0.1414    0.2829    0.4243    0.5657    0.7071

Columns 7 through 8

    0.8486    0.9900

Columns 1 through 6

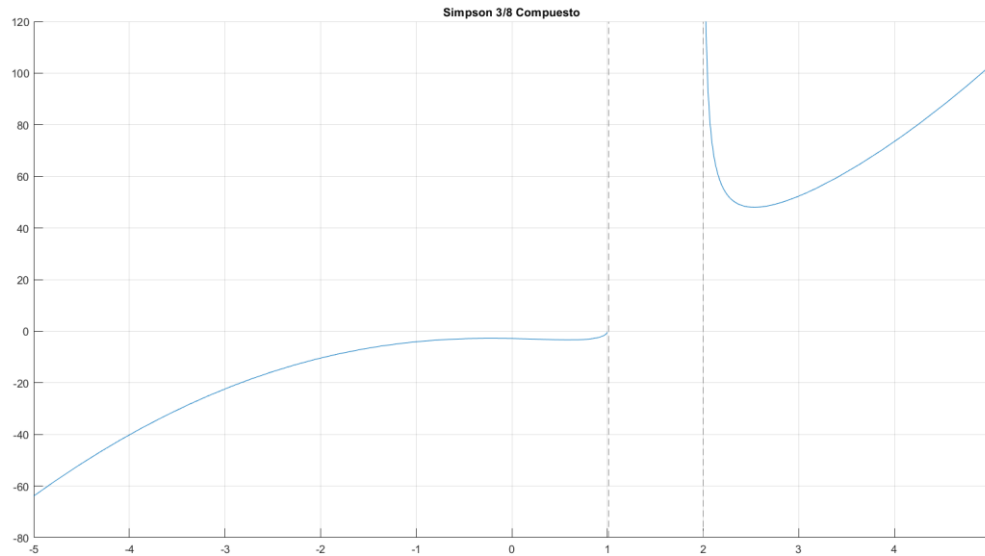
   -2.8284   -2.9517   -3.1057   -3.2572   -3.3519   -3.2909

Columns 7 through 8

   -2.8495   -0.8876

Integral-2.563273
disp('Aqui va la fig 1')
Aqui va la fig 1

```



```
[I,F,Er,Ea,Rt] = fintg('(3*x.^3-x.^2+2*x-4)/((x.^2-3*x+2).^(1/2))',0,0.99,18);
```

Columns 1 through 6

```
0    0.0550    0.1100    0.1650    0.2200    0.2750
```

Columns 7 through 12

```
0.3300    0.3850    0.4400    0.4950    0.5500    0.6050
```

Columns 13 through 18

```
0.6600    0.7150    0.7700    0.8250    0.8800    0.9350
```

Column 19

```
0.9900
```

[Warning: Function behaves unexpectedly on array inputs. To improve performance, properly vectorize your function to return an output with the same size and shape as the input arguments.]

```
[ > In matlab.graphics.function.FunctionLine>getFunction
In matlab.graphics.function/FunctionLine/updateFunction
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line 245</a>)
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In <a
href="matlab:matlab.internal.language.introspective.errorDocCallback('fplot>@(f)singleFplot(cax,{f},limits,extraOpts,args)', 'C:\Program
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```

```
style="font-weight:bold">fplot>@(f)singleFplot(cax,{f},limits,extraOpts,args)</a> (<a href="matlab:opentoline('C:\Program Files\Polyspace\R2020a\toolbox\matlab\graphics\function\fplot.m',200,0)">line 200</a>)
```

```
In <a href="matlab:matlab.internal.language.introspective.errorDocCallback('fplot>vectorizeFplot', 'C:\Program Files\Polyspace\R2020a\toolbox\matlab\graphics\function\fplot.m', 200)" style="font-weight:bold">fplot>vectorizeFplot</a> (<a href="matlab:opentoline('C:\Program Files\Polyspace\R2020a\toolbox\matlab\graphics\function\fplot.m',200,0)">line 200</a>)
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```

```
In <a href="matlab:matlab.internal.language.introspective.errorDocCallback('fintg', 'C:\Users\ismae\OneDrive\Documentos\MATLAB\Met. Numericos\Grupal\Integracion Numerica\fintg.m', 43)" style="font-weight:bold">fintg</a> (<a href="matlab:opentoline('C:\Users\ismae\OneDrive\Documentos\MATLAB\Met. Numericos\Grupal\Integracion Numerica\fintg.m',43,0)">line 43</a>)]
```

```
Simpson 3/8 Compuesto  
a: 0.000000,b: 0.990000, n: 18
```

```
Columns 1 through 6
```

0	0.0550	0.1100	0.1650	0.2200	0.2750
---	--------	--------	--------	--------	--------

```
Columns 7 through 12
```

0.3300	0.3850	0.4400	0.4950	0.5500	0.6050
--------	--------	--------	--------	--------	--------

```
Columns 13 through 18
```

0.6600	0.7150	0.7700	0.8250	0.8800	0.9350
--------	--------	--------	--------	--------	--------

```
Column 19
```

0.9900

```
Columns 1 through 6
```

-2.8284	-2.8711	-2.9208	-2.9760	-3.0353	-3.0968
---------	---------	---------	---------	---------	---------

```
Columns 7 through 12
```

-3.1586	-3.2179	-3.2718	-3.3163	-3.3467	-3.3567
---------	---------	---------	---------	---------	---------

```
Columns 13 through 18
```

-3.3380	-3.2795	-3.1648	-2.9685	-2.6458	-2.0981
---------	---------	---------	---------	---------	---------

Column 19

-0.8876

I: -2.973031

Integral: 0.000000

```
[I,F,Er,Ea,Rt] = fintg('(3*x.^3-x.^2+2*x-4)/((x.^2-3*x+2).^(1/2))',0,0.99,18);
```

Columns 1 through 6

0	0.0550	0.1100	0.1650	0.2200	0.2750
---	--------	--------	--------	--------	--------

Columns 7 through 12

0.3300	0.3850	0.4400	0.4950	0.5500	0.6050
--------	--------	--------	--------	--------	--------

Columns 13 through 18

0.6600	0.7150	0.7700	0.8250	0.8800	0.9350
--------	--------	--------	--------	--------	--------

Column 19

0.9900

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line 245</a>)
```

```
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line 200</a>)
```

In fplot (line 166)

In fintg (line 43)]
 Simpson 3/8 Compuesto
 a: 0.000000,b: 0.990000, n: 18

Columns 1 through 6

0	0.0550	0.1100	0.1650	0.2200	0.2750
---	--------	--------	--------	--------	--------

Columns 7 through 12

0.3300	0.3850	0.4400	0.4950	0.5500	0.6050
--------	--------	--------	--------	--------	--------

Columns 13 through 18

0.6600	0.7150	0.7700	0.8250	0.8800	0.9350
--------	--------	--------	--------	--------	--------

Column 19

0.9900

Columns 1 through 6

-2.8284	-2.8711	-2.9208	-2.9760	-3.0353	-3.0968
---------	---------	---------	---------	---------	---------

Columns 7 through 12

-3.1586	-3.2179	-3.2718	-3.3163	-3.3467	-3.3567
---------	---------	---------	---------	---------	---------

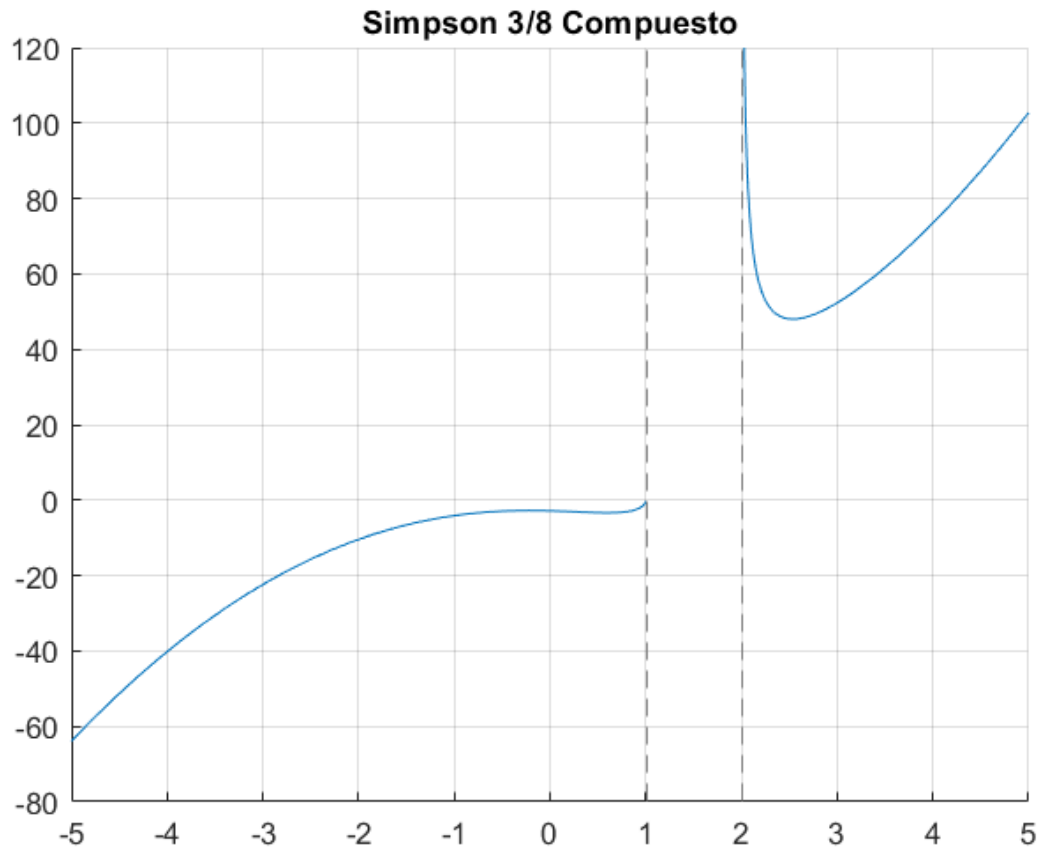
Columns 13 through 18

-3.3380	-3.2795	-3.1648	-2.9685	-2.6458	-2.0981
---------	---------	---------	---------	---------	---------

Column 19

-0.8876

Integral: -2.973031



```
[I,F,Er,Ea,Rt] = fintg('(3*x.^3-x.^2+2*x-4)/((x.^2-3*x+2).^(1/2))',0,0.99,1);
0 0.9900
```

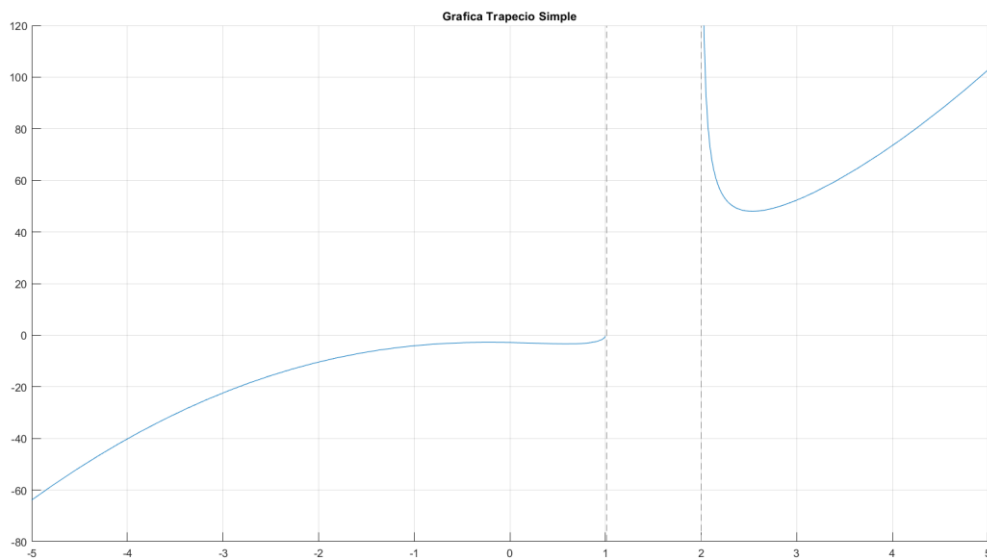
[Warning: Function behaves unexpectedly on array inputs. To improve performance, properly vectorize your function to return an output with the same size and shape as the input arguments.]

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line 166</a>)
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Numericos\Grupal\Integracion Numerica\fintg.m',43,0)">line 43</a>)]
Trapezio Simple
a: 0.000000,b: 0.990000, n: 1
Integral: 0.000000

```



diary off