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> # Simpson algorithm
> # Group 1, initialize.
> F:=x->evalf(exp(-x*x)):
> x0:=0:y0:=0:h:=0.1:
> Dots3:=[x0,y0]:
> # Group 2, repeat 10 times
> Y:=evalf(y0+h*(F(x0)+4*F(x0+h/2)+F(x0+h))/6):
> x0:=x0+h:y0:=Y:
> Dots3:=Dots3,[x0,y0];

```

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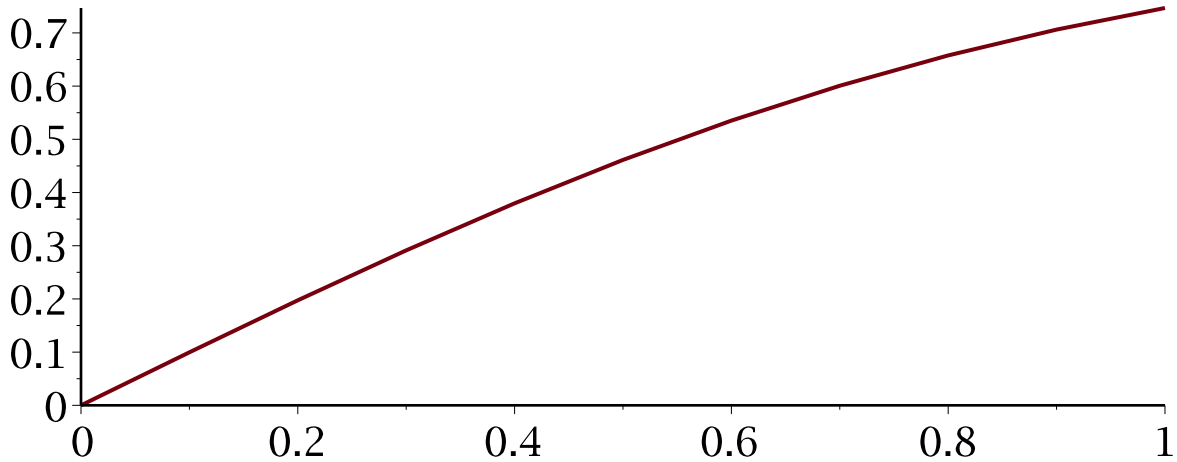
Dots3:= [0, 0], [0.1, 0.09966770540], [0.2, 0.1973651091], [0.3,
0.2912379904], [0.4, 0.3796529670], [0.5, 0.4612811420], [0.6,
0.5351536597], [0.7, 0.6006857886], [0.8, 0.6576699572], [0.9,
0.7062415917], [1.0, 0.7468241838]

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> # Group 3, plot.
> plot([Dots3]);

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(1)