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> # Trapezoidal algorithm
> # Group 1, initialize.
> F:=x->evalf(cos(x) + 2*x):
> x0:=0:y0:=0:h:=0.1*Pi:
> Dots2:=[x0,y0]:
> # Group 2, repeat 10 times
> Y:=y0+h*(F(x0)+F(x0+h))/2:
> x0:=x0+h:y0:=evalf(Y):
> Dots2:=Dots2,[x0,y0];
Dots2:= [0, 0], [0.3141592654, 0.4051672850], [0.6283185308,
0.9777271175], [0.9424777962, 1.690616522], [1.256637062,
2.522358198], [1.570796327, 3.459162870], [1.884955592,
4.496279078], [2.199114857, 5.638458282], [2.513274122,
6.899489758], [2.827433387, 8.300850806], [3.141592652, 9.869604400]
> # Group 3, plot.
> plot([Dots2]);
```

