

AP CALCULUS AB

TRAPEZOIDAL RULE PROGRAM

Use `prgmTR` to estimate the value of the integral

$$I = \int_0^{\pi/2} \sin x \, dx.$$

In particular, fill in the table below. Recall that the exact value of the integral is $I = 1$.

N	I
4	0.987 115 801
10	0.997 942 9864
100	0.999 979 4382
1000	0.999 999 7944