

Mathematica Assignment 1

Below is a list of *Mathematica* inputs. Submit a *Mathematica* notebook (electronic or printed) with the following for each of these inputs: the input, the corresponding output, and a brief explanation on the meaning or significance of the input/output pair. Explanations should be written as complete sentences. Each explanation might be one or two sentences.

You should also list details of the system (software version and hardware) you use for this assignment.

This assignment is due Wednesday, January 24.

`$MachinePrecision`

`$MachineEpsilon`

`1 + $MachineEpsilon`

`1 + 0.5 * $MachineEpsilon`

`$MinMachineNumber`

`$MaxMachineNumber`

`$MinNumber`

`$MaxNumber`

`MachineNumberQ[1]`

`MachineNumberQ[1.]`

`MachineNumberQ[0.1]`

`MachineNumberQ[Pi]`

`N[Pi]`

`N[Pi, 2]`

`N[Pi, 16]`

`N[Pi, 30]`

`N[0.142]`

`N[0.142, 30]`