

```
(*  
  MATHEMATICA DEMO OF MONTE  
  CARLO SAMPLE MEAN INTEGRATION  
*)
```

```
MaxTrials = 1000;  
ltot = 0.0;  
Do[{a = Random [ ];  
    li = 2.0 (1 - a2)-0.5;  
    ltot = ltot + li}, {i, 1, MaxTrials}];  
pi =  $\frac{\text{ltot}}{1.0 \text{ MaxTrials}}$ ;  
Print["Estimate of  $\pi$ : ", pi];  
  
Estimate of  $\pi$ : 3.20358
```