

Answer on Question #45300, Programming, Mat LAB | Mathematica | MathCAD | Maple

Question:

Write a script averages which take two values xlow and xhigh and generate 10000 random numbers in the range [xlow...xhigh], and calls the appropriate functions to compute arithmetic mean (average), rms average, geometric mean and harmonic mean.

Answer:

```
function [average_value, rms_value, geometric_mean, harmonic_mean] =  
averages (xlow, xhigh)  
  
    random_array = random('unif', xlow, xhigh, 100000, 1);  
  
    average_value = mean(random_array);  
  
    rms_value = rms(random_array);  
  
    geometric_mean = geomean(random_array);  
  
    harmonic_mean = harmmean(random_array);  
  
end
```