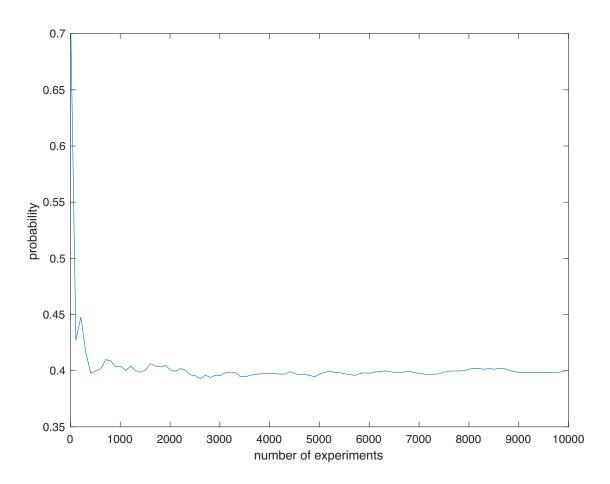
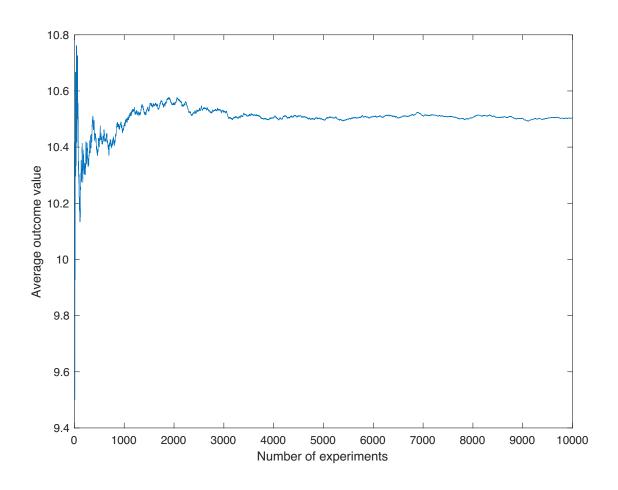


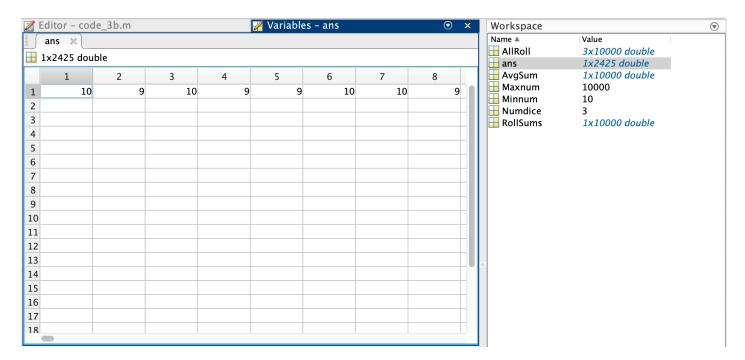
2b.fig

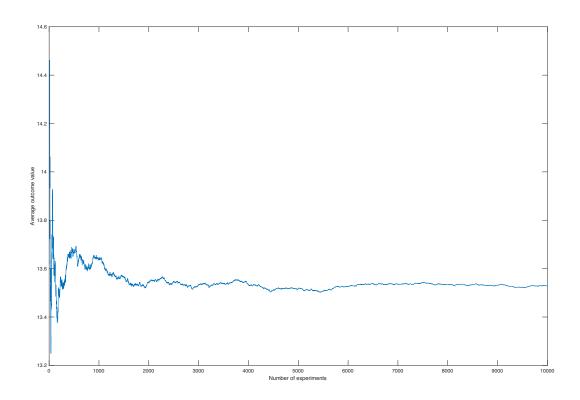


3a.fig

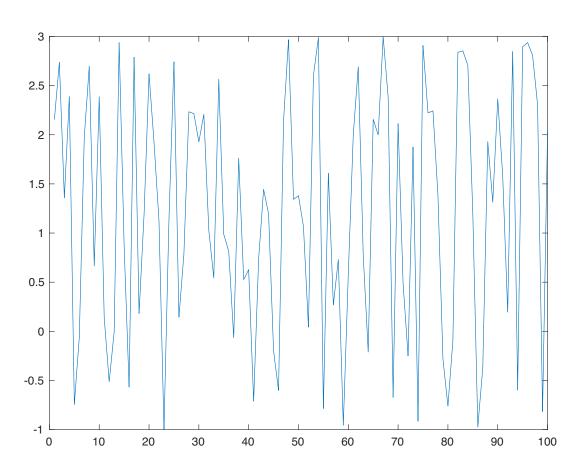


3b.fig





4a.fig



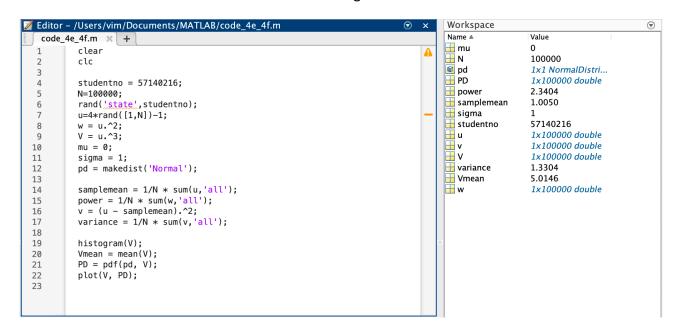
4b.fig

```
Editor – /Users/vim/Documents/MATLAB/code_4b.m
                                                                                                                          Workspace
                                                                                                                                                                                    _{\odot}
     code_4b.m × +
                                                                                                                          Name 🛎
                                                                                                                                                   Value
                                                                                                                         100
               clear
                                                                                                                                                   3.0365
    2
               clc
                                                                                                                                                   1.2235
57140216
   3
   4
               studentno = 57140216;
               N=100;
rand('state', studentno);
u=4*rand([1,N])-1;
w = u.^2;
                                                                                                                                                   1x100 double
                                                                                                                                                   1x100 double
   6
7
                                                                                                                                                   1.5395
                                                                                                                                                   1x100 double
   8
   9
               samplemean = 1/N * sum(u, 'all');
power = 1/N * sum(w, 'all');
v = (u - samplemean).^2;
variance = 1/N * sum(v, 'all');
  10
  11
  12
  13
  14
  15
16
```

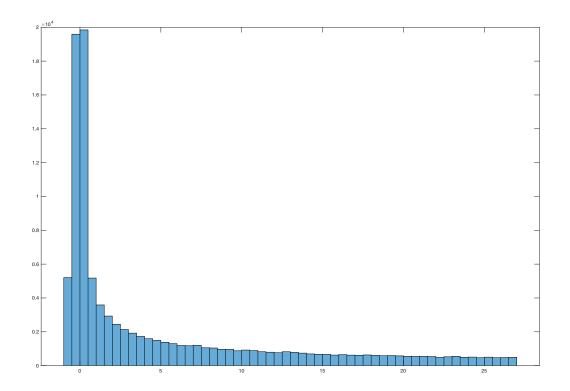
4c.fig

```
Editor – /Users/vim/Documents/MATLAB/code_4c.m
                                                                                                                                               Workspace
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                                                                                                                                                                           Value
                                                                                                                                               Name A
     code_4c.m × +
                                                                                                                                             Name AN N power samplemean studentno U v variance W
                                                                                                                                                                           100000
                  clear
                                                                                                                                                                           2.3404
    2
                  clc
                                                                                                                                                                           1.0050
    3
                 studentno = 57140216;
N=100000;
rand('state', studentno);
u=4*rand([1,N])-1;
                                                                                                                                                                           57140216
    4
5
                                                                                                                                                                           1x100000 double
                                                                                                                                                                           1x100000 double
    6
                                                                                                                                                                           1.3304
1x100000 double
    8
    9
                  samplemean = 1/N * sum(u,'all');
power = 1/N * sum(w,'all');
v = (u - samplemean).^2;
variance = 1/N * sum(v,'all');
   10
   11
12
   13
   14
```

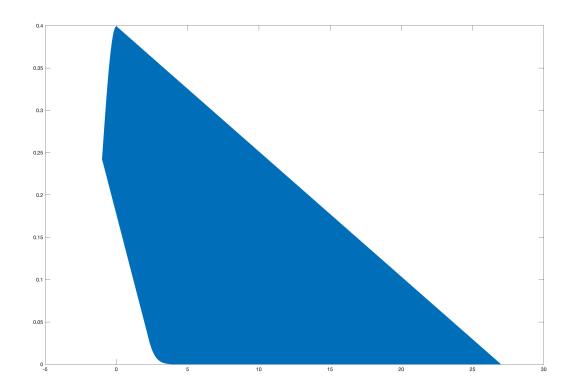
4e.fig



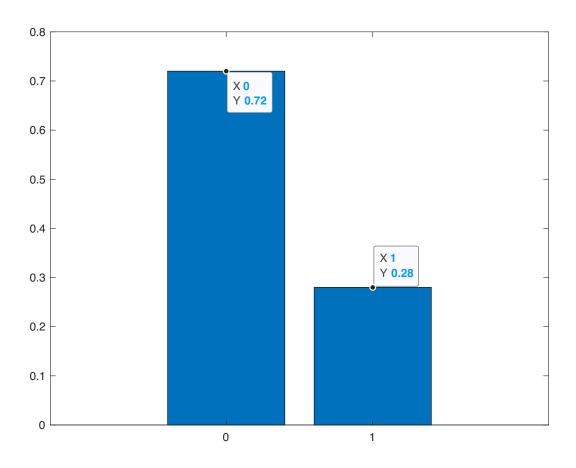
4e_histogram.fig



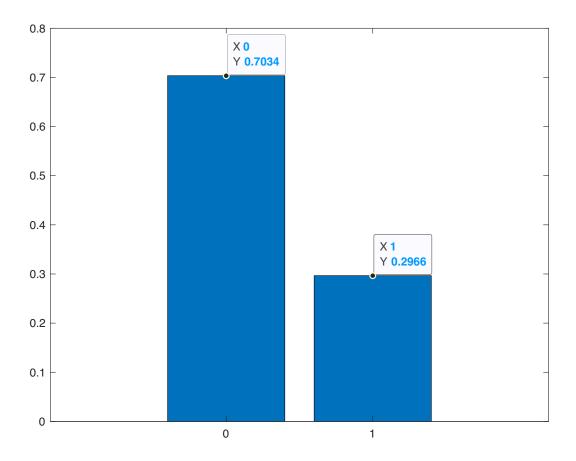
4e_pdf.fig



5a_pmf.fig



5b_pmf.fig



5c_pmf.fig

