

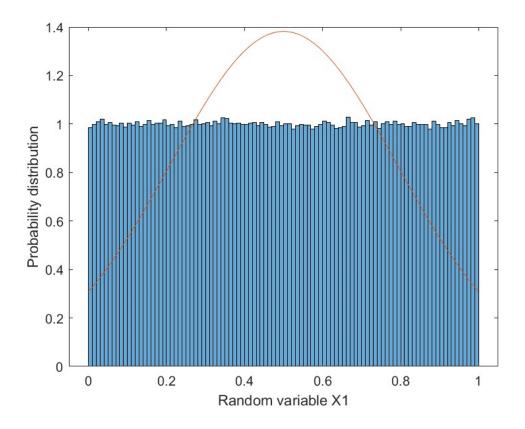
```
0
7.18 \text{ M}_{x}(t) = E(e^{tx}) = \frac{\infty}{K-1}e^{tx} pq^{X-1}
                                              = \frac{\rho}{q} \sum_{x=1}^{\infty} (qe^{t})^{x}
                                                                                                           9
                                              = P qet when | qet | 4|-
q 1-qet et 2 q

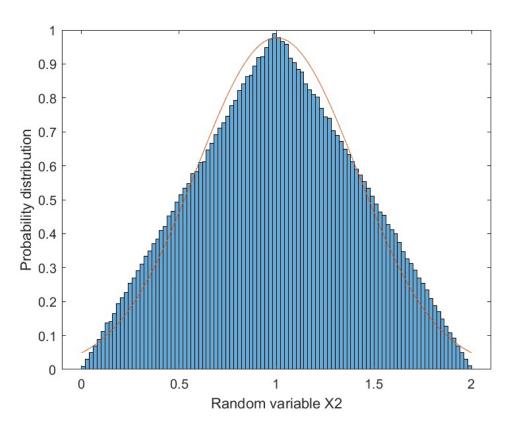
- pet t 1 n q

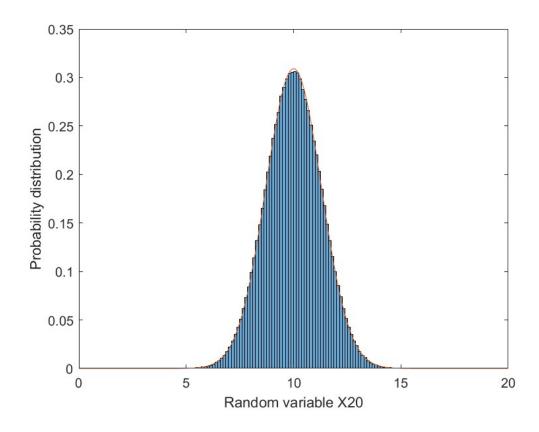
1-qet
                                                                                                           0
                                                                                                            0
           6^{2} = \frac{1}{2} M_{x}(t)
           u = \frac{1}{2} \frac{M \times (t)}{t} = \frac{1}{2} \frac{1}{(1-2t)^{2}} \frac{1}{(-2)} = \sqrt{1-2t}
 7.22
          6^{2} = \frac{d^{2}Mx^{(t)}}{dt^{2}} \Big|_{t=0} - u^{2} = (V+2)(V)(1-2t)^{-\frac{V}{2}-2}\Big|_{t=0}
```

Matlab.

1. b







可以看出隨 n 增大,Irwin-Hall distribution 和 normal distribution 誤差越來越小(面積重疊的部分越來越多)