

## Erratum for lecture notes on Probability & Bayes I

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- Last updated: March 27th 2023
  - Original notes available at:  
<https://charlesm93.github.io/files/Prob&Bayes.pdf>.
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Bottom of page 10:

In the exercise on Buffon's needle, the variance should be

$$\text{Var}X = \pi(4 - \pi)/16. \quad (1)$$

Accordingly, the standard deviation is  $\text{sd}(X) = \sqrt{\pi(4 - \pi)}/4$ . We then have  $\text{Var}\bar{X} = \pi(4 - \pi)/(16N)$  and  $\text{sd}(\bar{X}) = \sqrt{\pi(4 - \pi)}/4\sqrt{N}$ .

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### Acknowledgment:

Thank you to Priyanka Jangied.