

Practice with Probability Distributions

For each of the probability distributions shown, evaluate the following:

(a). $\langle x \rangle$

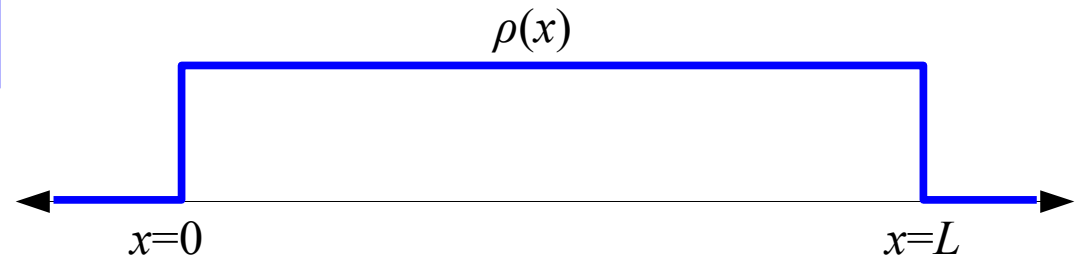
(b). $\langle x^2 \rangle$

Then use your values from parts (a) and (b) in each case to compute the standard deviation σ , where:

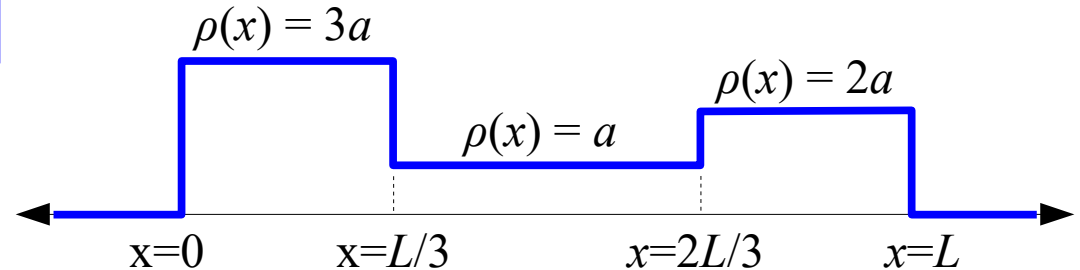
(c). $\sigma = \sqrt{\langle x^2 \rangle - \langle x \rangle^2}$

Remember: in each case you'll have to find the normalization first, in order to do anything else!

1



2



3

