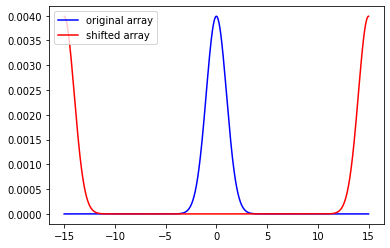
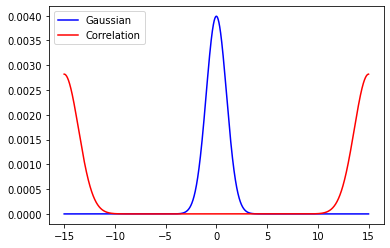
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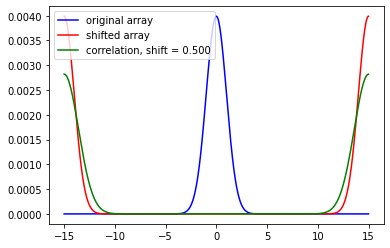
**Q1.**

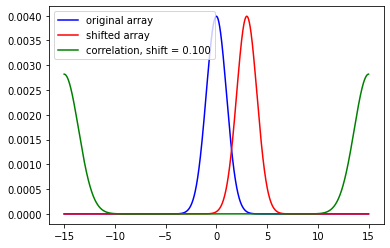
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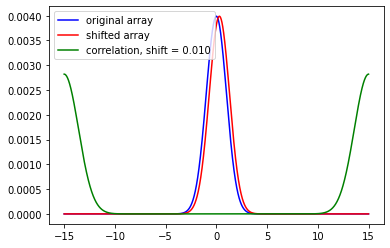
**Q2.**

****

**Q3.**

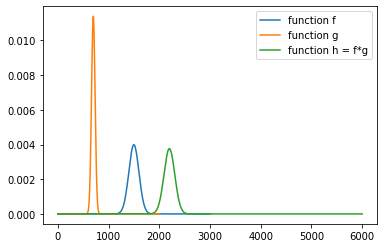
****

****

****

As shown in the graphs above, the correlation function (green) does not depend on the shift (red). Autocorrelation does not depend on the shift.

**Q4.**



The output array is 2 times as long as the longest array between f and g.

**Q5.**

**a)**

Text

Description automatically generated with low confidence

**c)**

Chart, histogram

Description automatically generated

Std is 11.246715049499588.