Note 1: You MUST turn in a paper copy of the assignment. E-mailed documents of any kind will NOT be accepted.

Note 2: This homework is worth 20/3 points of your final grade.

Note 3: The goal of this Matlab homework is to exercise you on the practical applications of discrete-time correlation. An additional goal is to get you started on using Matlab.


Corrections:

(c) Plot $r_{yx}(\ell)$ NOT $r_{xy}(\ell)$.

(e) Repeat parts (b), (c), and (d) for the signal sequence ...

(f) Repeat parts (b), (c), and (d) for a sequence of period ...

General Information.

Deliverables for this project include 21 plots. Each plot should be clearly labeled, and should be accompanied by a brief explanation. The collection of plots and accompanying explanations should be put together in a cohesive manner in the form of a very brief report. Don’t go overboard – this is simply a homework, not a project. Append source code to the report.

You may use any Matlab command you like in solving these problems. Each student is expected to do his/her own work and each must turn in his/her own report. Again, your write-up for this homework should be in the form of a very brief report. Handwriting is acceptable but please be sure it is legible. Your report should include:

- Answers to all questions posed including mathematical development where necessary.
- The 21 plots and explanations.