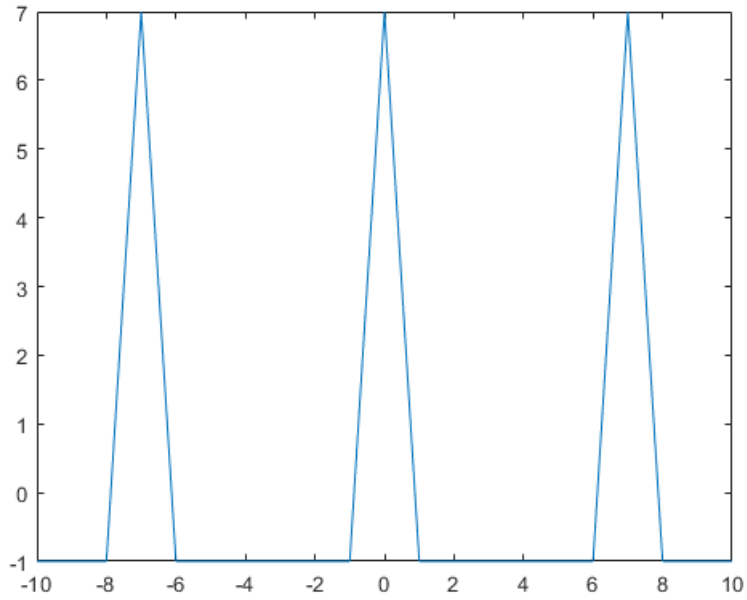
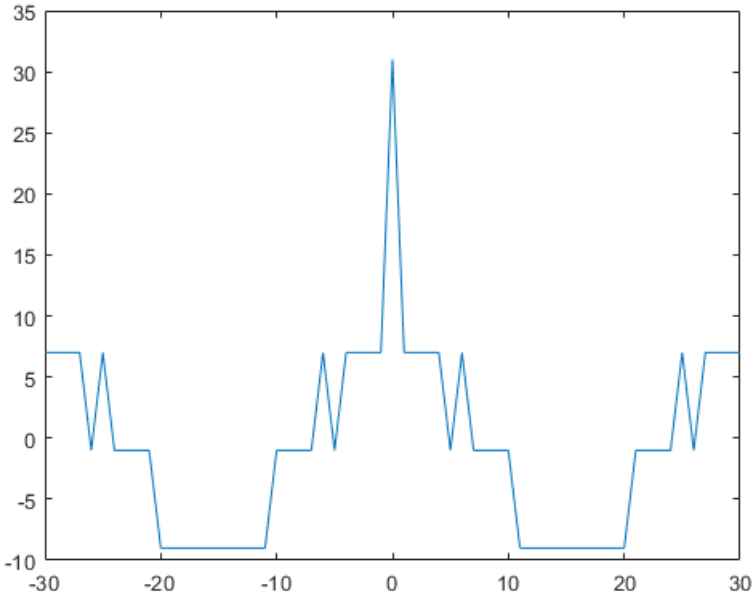
Part A

The autocorrelation of the m-sequence is shown in the figure. It has a peak at 0 and its period is 7.

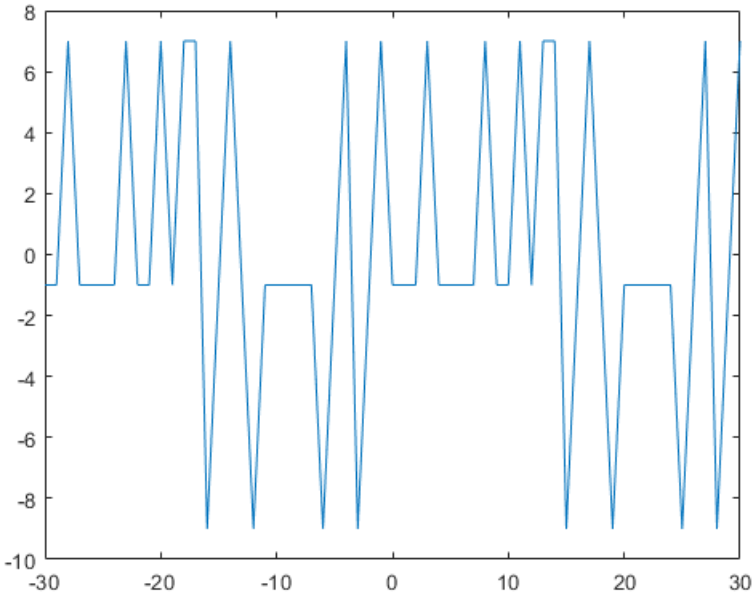


Part B

In part B, for k = 5, the autocorrelation is



For k = 5 and 6, the cross correlation is


8
6
4
2
0
-2
-4
-6
-8
-10
-30
-20
-10
0
10
20
30