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Dan Otieno. CPE 381 Final. 04/26/23.

======== Q12

This was completed manually but plotted in MATLAB to double-check myself.

```
 \begin{array}{l} xn = [0.1\ 0.3\ 0.24\ 0.39\ 0.41\ 0.3\ 0.23\ -0.2\ -0.15\ 0.2\ 0.4] \\ hn = [-0.1\ 0.2\ -0.05] \\ y = conv(xn,\ hn) \\ stem(y) \\ grid\ on \\ \end{array}
```

xn =

Columns 1 through 7

0.1000 0.3000 0.2400 0.3900 0.4100 0.3000 0.2300

Columns 8 through 11

-0.2000 -0.1500 0.2000 0.4000

hn =

-0.1000 0.2000 -0.0500

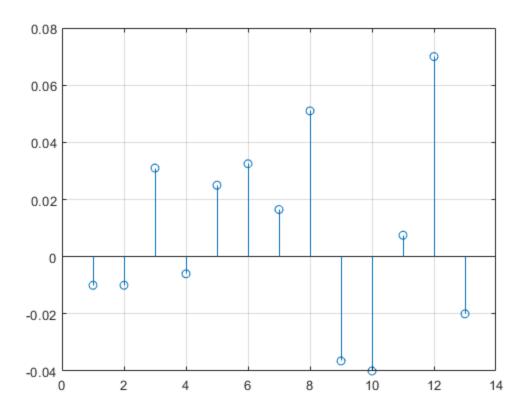
y =

Columns 1 through 7

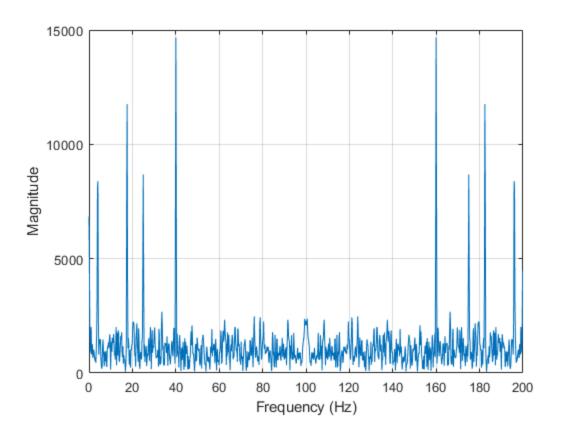
-0.0100 -0.0100 0.0310 -0.0060 0.0250 0.0325 0.0165

Columns 8 through 13

 $0.0510 \quad -0.0365 \quad -0.0400 \quad 0.0075 \quad 0.0700 \quad -0.0200$



======= Q18



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