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```
clear; close all; clc;
```

Problem 7

```
k = 1:1:5;
e(2:1:5) = ones;

N = e(k);
D = [1 -0.75 0.125];

y1 = filter(N,D,e)
```

```
y1 =

         0         0    1.0000    2.7500    4.9375
```

Problem 8

```
N = [1 0];
D = [1 -3.2 3.77 -1.93 0.36];

x = 3:1:25;

y2 =filter(N,D,x)
```

```
y2 =

   1.0e+04 *

  Columns 1 through 7

    0.0003    0.0014    0.0037    0.0080    0.0147    0.0244    0.0377

  Columns 8 through 14

    0.0551    0.0772    0.1043    0.1370    0.1756    0.2204    0.2719

  Columns 15 through 21

    0.3303    0.3960    0.4692    0.5501    0.6389    0.7359    0.8412

  Columns 22 through 23

    0.9550    1.0774
```

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