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Problem 4.1.2

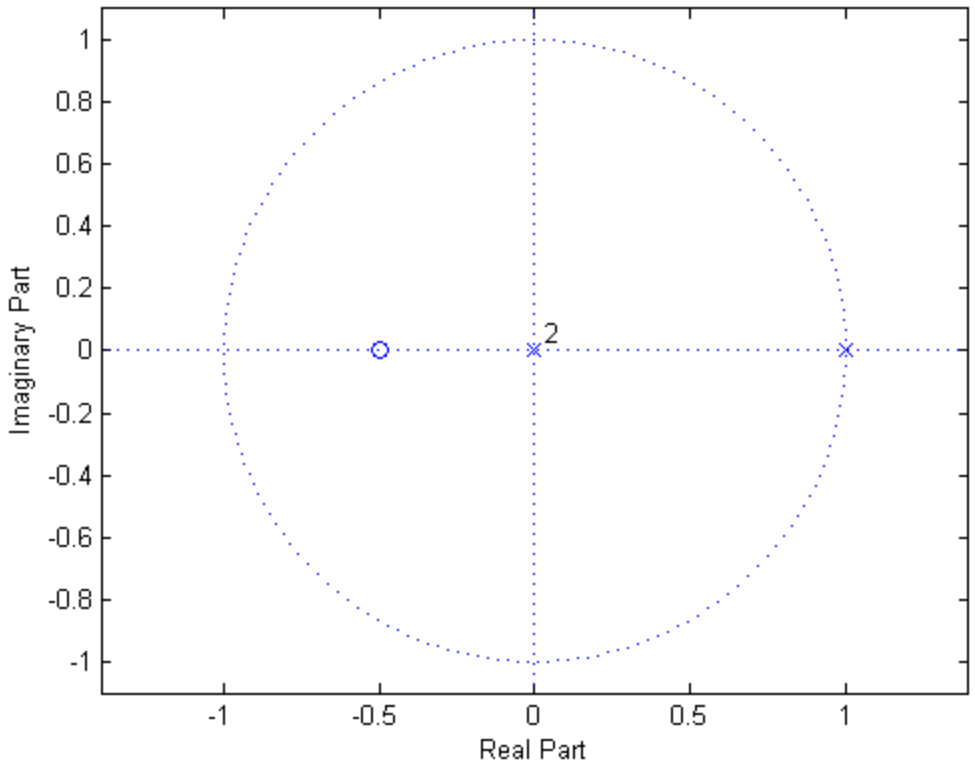
```
b =  [0 0 0.64];
a = [1 -0.8];
delta = [1 0 0 0 0 0 0];
x_inv = filter(b, a, delta)

n = 0:6;
x = 0.8.^n.*(n>=2)
```

```
x_inv =

         0         0    0.6400    0.5120    0.4096    0.3277    0.2621

x =

         0         0    0.6400    0.5120    0.4096    0.3277    0.2621
```

Problem 4.3.1

```
b = [0 0 2 1];
a = [1 -1];
x_inv = filter(b, a, delta)

zplane(b, a)
```

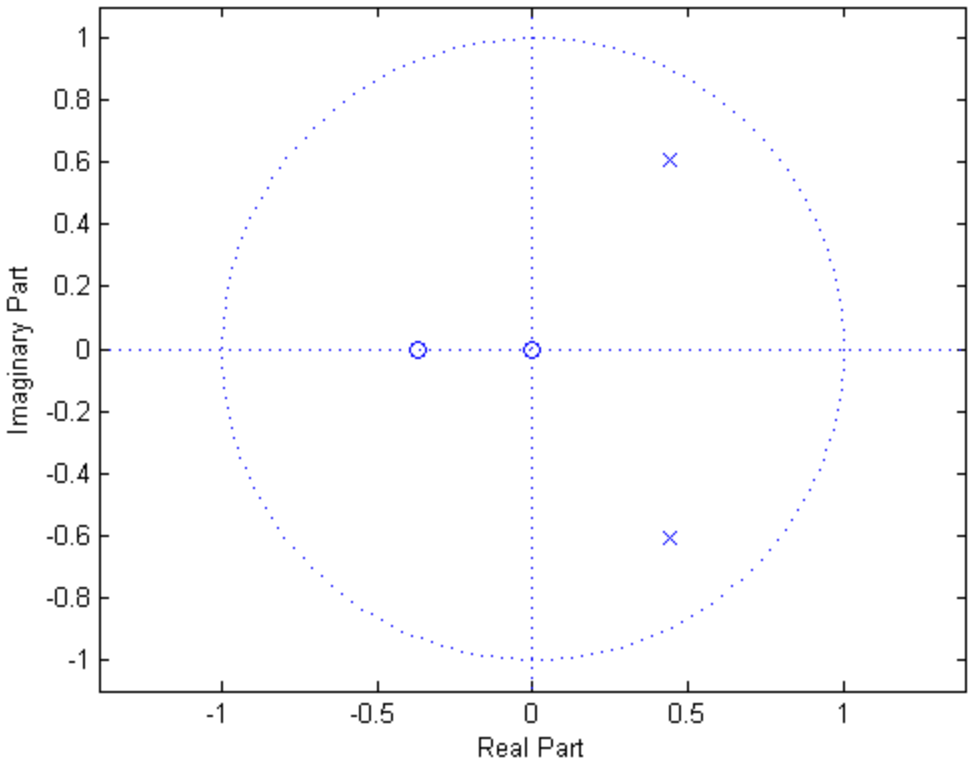
```
x_inv =

     0     0     2     3     3     3     3
```



Problem 4.3.2

```
b = [3 1.1045];
a = [1 -0.8817 0.5625];
x_inv = filter(b, a, delta)

x = 3*(0.75.^n).*cos(0.3*pi.*n) + 4*(0.75.^n).*sin(0.3*pi.*n)
zplane(b, a)
```

```
x_inv =

    3.0000    3.7496    1.6185   -0.6821   -1.5118   -0.9493    0.0134


x =

    3.0000    3.7496    1.6184   -0.6822   -1.5118   -0.9492    0.0135
```



Published with MATLAB® R2013a