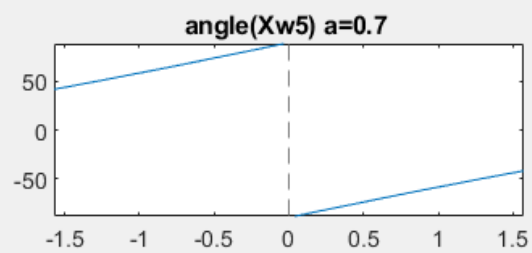
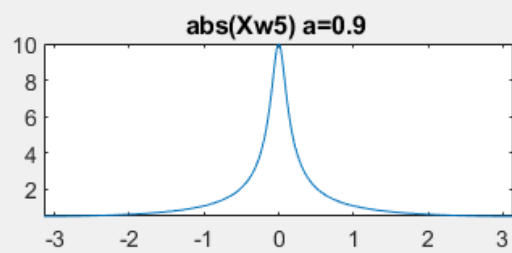
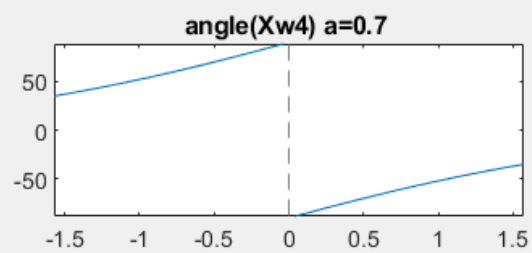
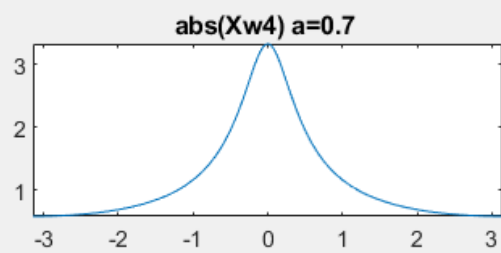
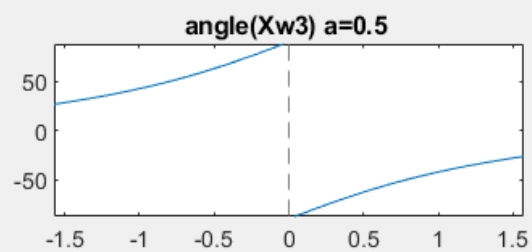
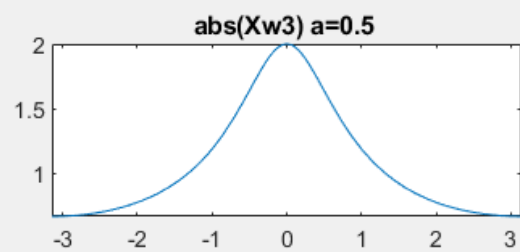
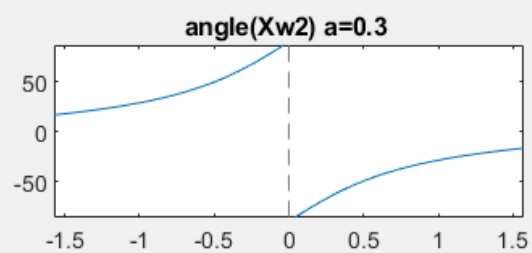
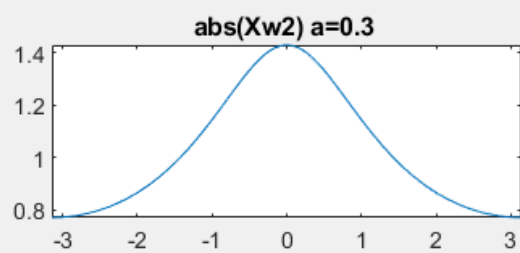
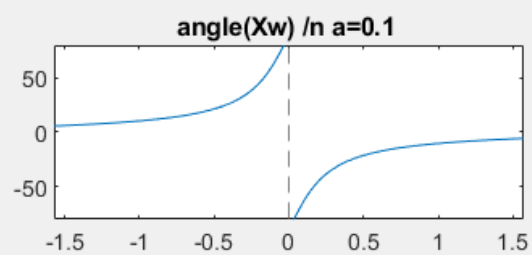
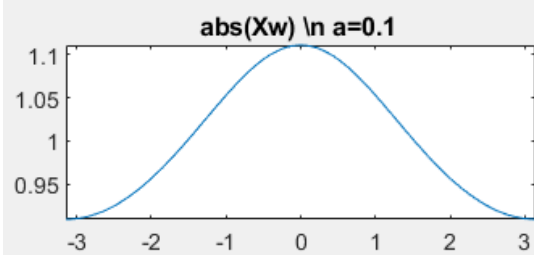


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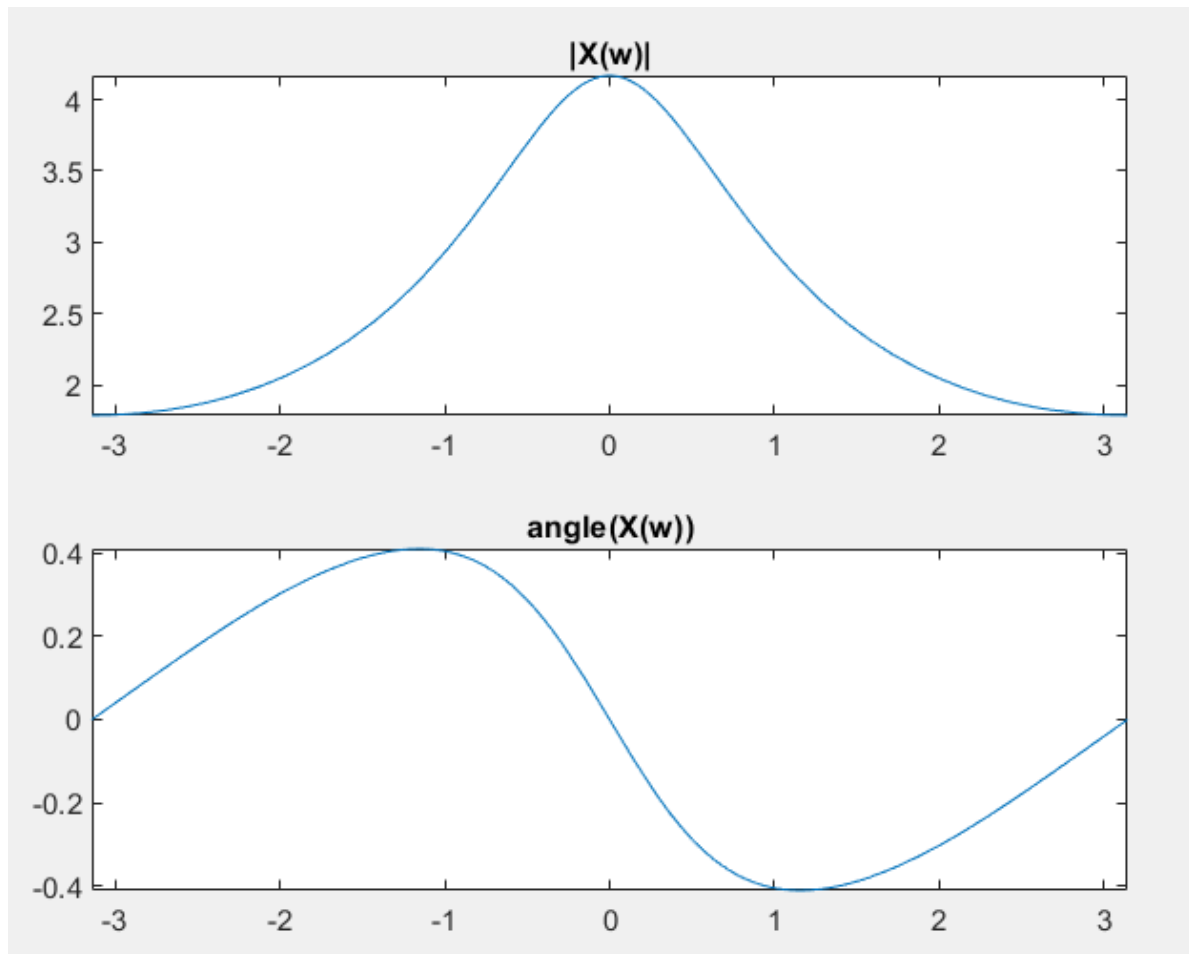
DSPOdev1.m x DSPOdev2.m x DSPOdev3.m x +
1 -   clc;
2 -   clear all;
3 -   close all;
4
5 -   syms w ;
6 -   a = 0.1 ;
7 -   a2 = 0.3 ;
8 -   a3 = 0.5 ;
9 -   a4 = 0.7 ;
10 -  a5 = 0.9 ;
11
12 -  ABSXw = 1/((1+a^2 -2*a*cos(w))^(1/2)) ;
13 -  ANGXw = atand((-a*sin(w))/(1-cos(w))) ;
14
15 -  ABSXw2 = 1/((1+a2^2 -2*a2*cos(w))^(1/2)) ;
16 -  ANGXw2 = atand((-a2*sin(w))/(1-cos(w))) ;
17
18 -  ABSXw3 = 1/((1+a3^2 -2*a3*cos(w))^(1/2)) ;
19 -  ANGXw3 = atand((-a3*sin(w))/(1-cos(w))) ;
20
21 -  ABSXw4 = 1/((1+a4^2 -2*a4*cos(w))^(1/2)) ;
22 -  ANGXw4 = atand((-a4*sin(w))/(1-cos(w))) ;
23
24 -  ABSXw5 = 1/((1+a5^2 -2*a5*cos(w))^(1/2)) ;
25 -  ANGXw5 = atand((-a5*sin(w))/(1-cos(w))) ;
26
27 -  subplot(5,2,1)
28 -  fplot(ABSXw,[-pi pi]);
29 -  title('abs(Xw) \n a=0.1 ');
30
31 -  subplot(5,2,2)
32 -  fplot(ANGXw,[-pi/2 pi/2]);
33 -  title('angle(Xw) /n a=0.1 ');
34
35 -  subplot(5,2,3)
36 -  fplot(ABSXw2,[-pi pi]);
37 -  title('abs(Xw2) a=0.3 ');
38
39 -  subplot(5,2,4)
40 -  fplot(ANGXw2,[-pi/2 pi/2]);
41 -  title('angle(Xw2) a=0.3 ');
42
43 -  subplot(5,2,5)
44 -  fplot(ABSXw3,[-pi pi]);
45 -  title('abs(Xw3) a=0.5 ');
46
47 -  subplot(5,2,6)
48 -  fplot(ANGXw3,[-pi/2 pi/2]);
49 -  title('angle(Xw3) a=0.5 ');
50
51 -  subplot(5,2,7)
52 -  fplot(ABSXw4,[-pi pi]);
53 -  title('abs(Xw4) a=0.7 ');
54
55 -  subplot(5,2,8)
56 -  fplot(ANGXw4,[-pi/2 pi/2]);
57 -  title('angle(Xw4) a=0.7 ');
58
59 -  subplot(5,2,9)
60 -  fplot(ABSXw5,[-pi pi]);
61 -  title('abs(Xw5) a=0.9 ');
62
63 -  subplot(5,2,10)
64 -  fplot(ANGXw5,[-pi/2 pi/2]);
65 -  title('angle(Xw5) a=0.9 ');
66

```



Ödev 2

```
67 - Xw = (((0.2)^4)*exp(-1j*4*w))/(1-(0.2)*exp(-1j*w)) + (2.5)/(1-0.4*exp(-1j*w)) ;
68
69 - subplot(2,1,1)
70 - fplot(abs(Xw),[-pi pi]);
71 - title('|X(w)|');
72
73 - subplot(2,1,2)
74 - fplot(angle(Xw),[-pi pi]);
75 - title('angle(X(w))');
```



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