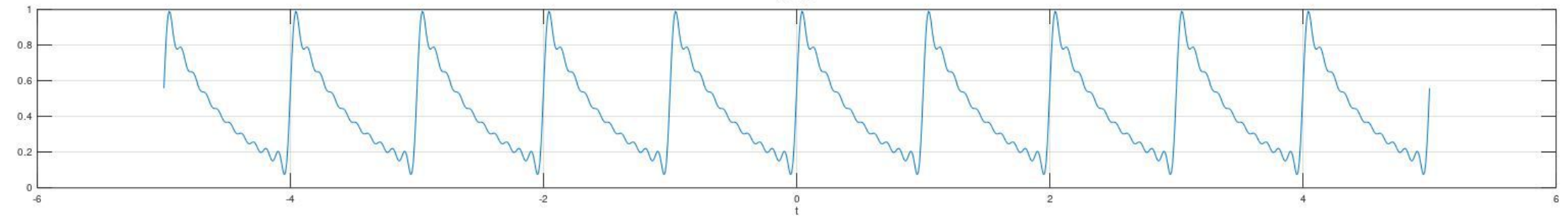


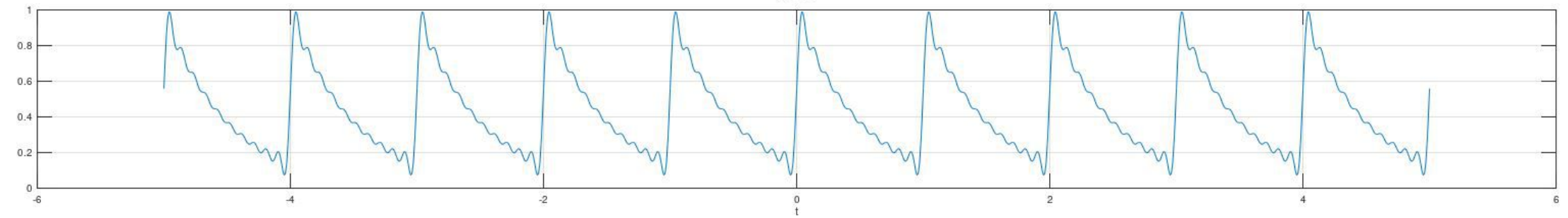
```
function fn = myfs(Dn, omega0, t)
    L=length(Dn);
    N = (L - 1) ./ 2;
    negN = -1.*N;
    result = 0;
    for index = 1:L
        result += (Dn(index) .* exp(j.*omega0.*negN.*t));
        negN++;
    endfor
    fn = result;
endfunction
```

```
k=-10:1:10;  
coeff = (exp(-2) - 1) ./ (-j.*2.*pi.*k - 2);  
t=-5:0.01:5;  
subplot(3,1,1);  
plot(t,myfs(coeff,2.*pi,t)); grid on; xlabel('t'); title('N = 10');  
  
subplot(3,1,2);  
k=-50:1:50;  
plot(t,myfs(coeff,2.*pi,t)); grid on; xlabel('t'); title('N = 50');  
  
subplot(3,1,3);  
k=-100:1:100;  
plot(t,myfs(coeff,2.*pi,t)); grid on; xlabel('t'); title('N = 100');
```

N = 10



N = 50



N = 100

