Laborator 6 x(+)= Artn(wt+Q) (B) = 10 0 Anin (wolf = 6) + (e) Anin (wolf)

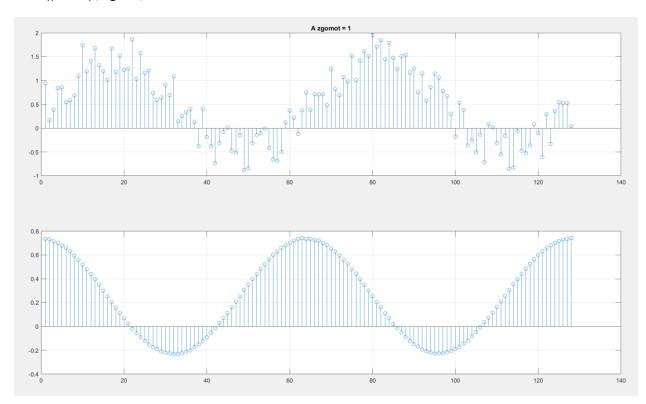
1 5 To 20 Anin (wolf = 6) + (e) Anin (wolf)

A2 5 To alm (wo (x+6) nim (wolf)

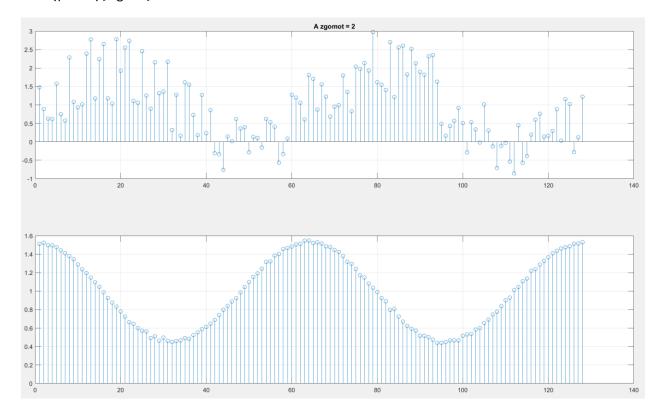
To 0 ( (B) = 16 AZ (To(1005(-1005) - 1005(2Wat +24-1005) A? 50 (100 (1006) - 100 (2 (10 2+28 - 1008))) 270 w((006)) (0 - 42 1 vin (2000 tt2 4-4) + cos (44) ren (44) cos (24-600) + (6x vin/26-cost 1/2) 12 101 (Wo 6) - 42 ( (x) = A? 100

```
%% 2
function phix = aurocorr_2(x,N,M)
% a
    if(length(x) < M+N)
        phix = [];
        return
    end
    phix = zeros(1,N);
    for n = 1:N
        for k = 1+n:M + n
            phix(n) = phix(n) + x(k) * x(k-n);
        end
    end
    phix = phix / M;
end
clc
clear all
close all
%%
% b
N = 128;
M = 1000;
n = 0:N+M-1;
xp = 1*sin(2*pi*n/64);
% с
A = 1;
x = xp + A * rand(1, length(n));
phixx = autocorr_2(x,N,M);
```

```
% e
figure(1)
A = 1;
x = xp + A * rand(1,length(n));
phixx = autocorr_2(x,N,M);
subplot(2,1,1); title("A zgomot = 1");
stem(x(1:N)); grid;
subplot(2,1,2);
stem(phixx); grid;
```



```
figure(2)
A = 2;
x = xp + A * rand(1,length(n));
phixx = autocorr_2(x,N,M);
subplot(2,1,1); title("A zgomot = 2");
stem(x(1:N)); grid;
subplot(2,1,2);
stem(phixx); grid;
```



```
figure(3)
A = 3;
x = xp + A * rand(1,length(n));
phixx = autocorr_2(x,N,M);
subplot(2,1,1); title("A zgomot = 3");
stem(x(1:N)); grid;
subplot(2,1,2);
stem(phixx); grid;
```

