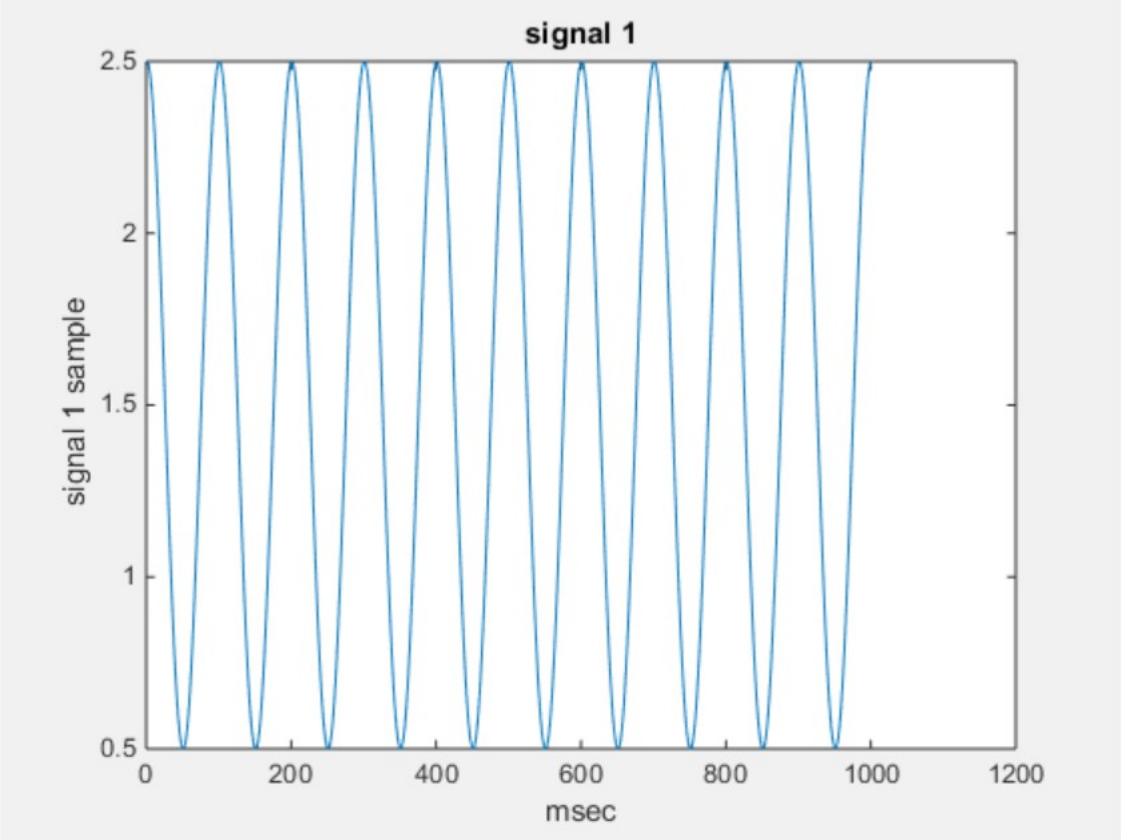
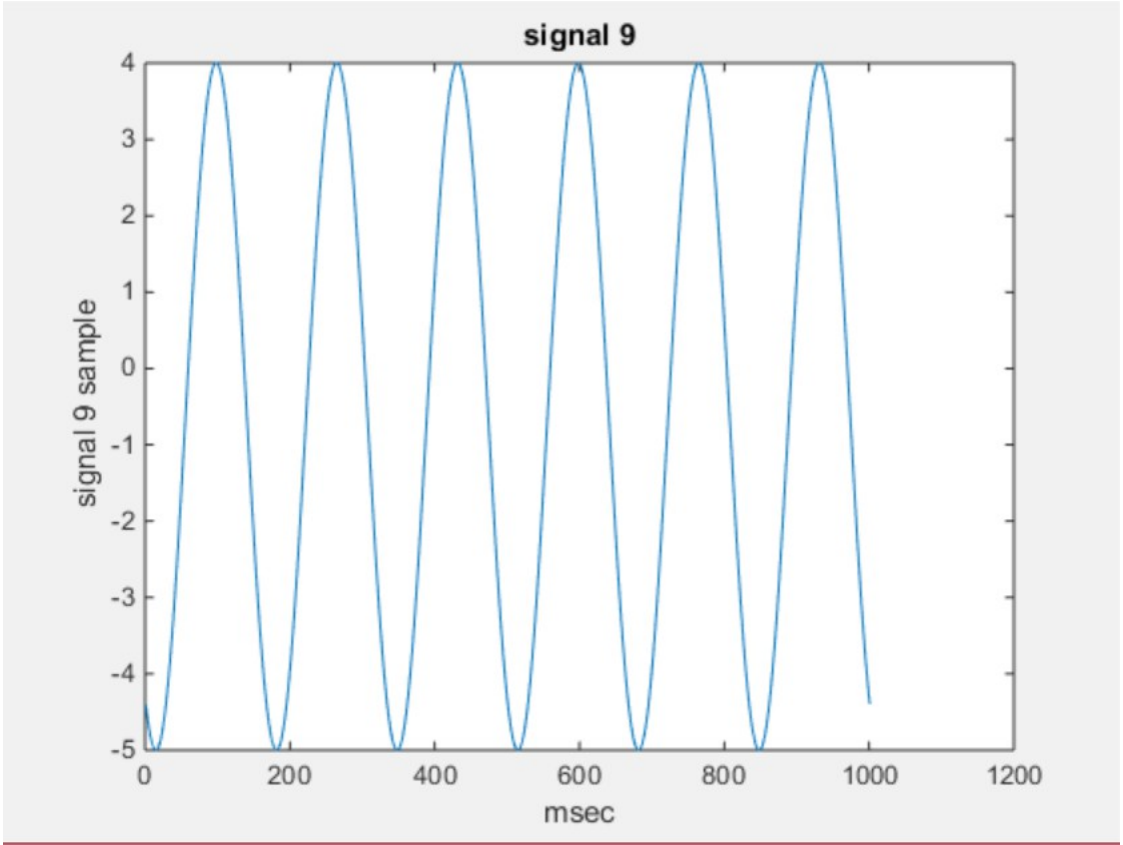
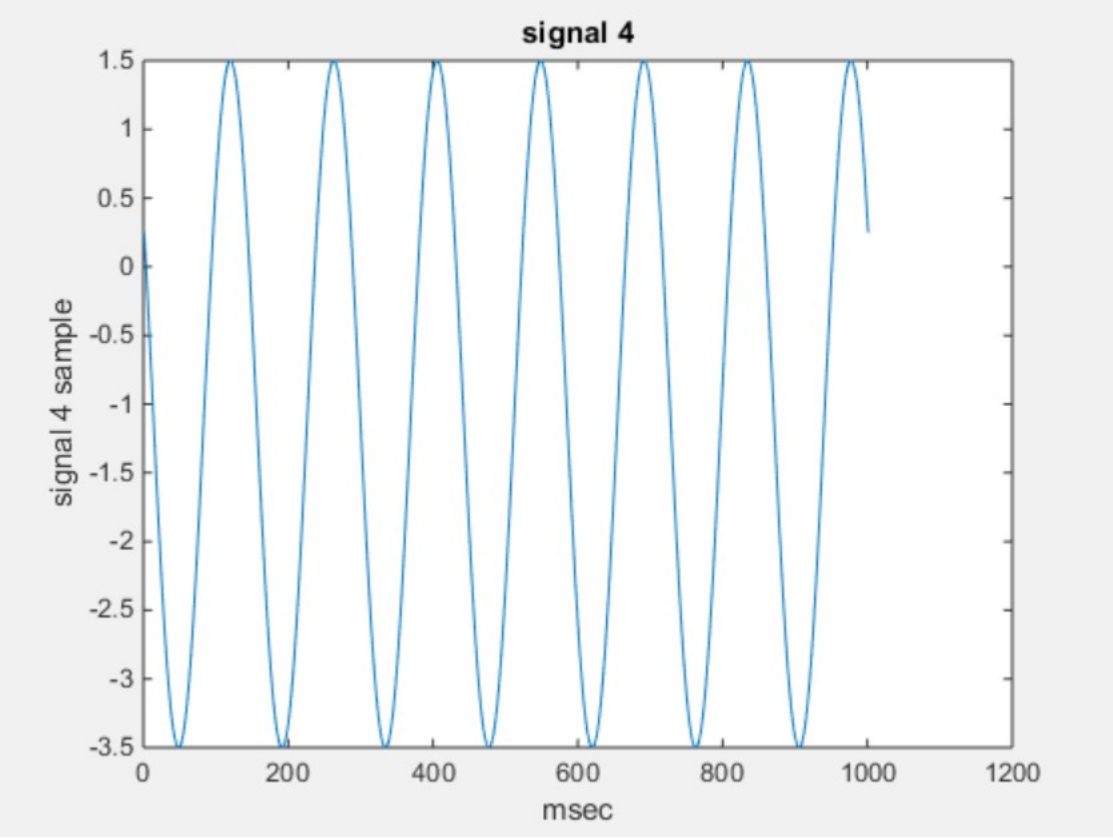
a)


signal 1
signal 1 sample
msec
2.5
2
1.5
1
0.5
0
200
400
600
800
1000
1200


signal 9
signal 9 sample
msec
4
3
2
1
0
-1
-2
-3
-4
-5
0
200
400
600
800
1000
1200



b)

c)

```
function [C, A, f, phi] = parameters_of_sin(fs, x)
C = (max(x) + min(x))/2;
A = (max(x) - min(x))/2;
n1 = 0;

n5 = 0.9998*(max(x));
for n=1:length(x)
    if(x(n) >= n5)
        if n1 == 0
            n1 = n;
       end
end
f = 1/(n2-n1) * fs;
n2 = 0;
n3 = 0;
for n=1:length(x)
```

```
    if( x(n) > n5)
       if n2 ~= 0
           n3 = n;
        else
           n2 = n;
        end
    end
end
phi = (n2-1)/(n3-n1)*360;
if phi ~= 0
    phi = 360 - phi;
end
end
```