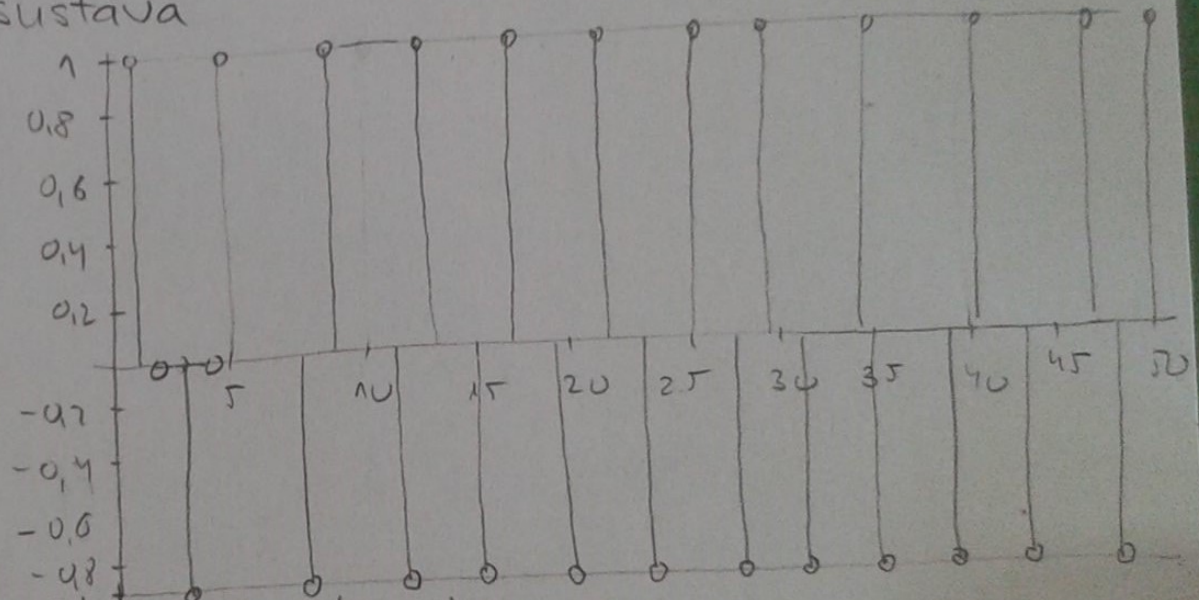
1 zadatak 1)

$$y(n) + y(n-2) = \underbrace{u(n)}_{B}, \quad -u(n) = \cos\left(\frac{\pi}{2}n\right)\mu(n)$$

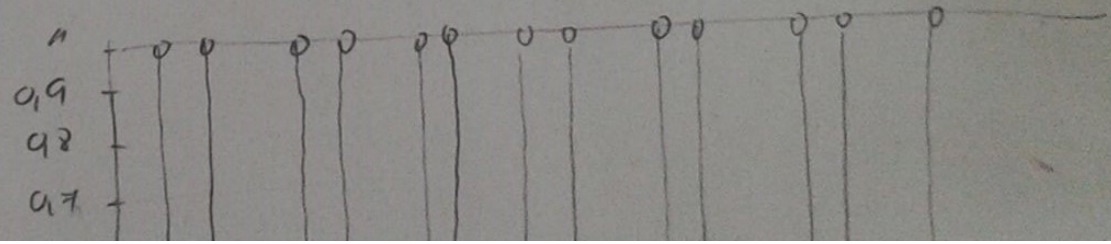
g) odredite impulsni odziv sustava

```
B = [ 1  0  0];
A = [ 1  0  1];
s = tf ( B, A, 1);
impulse (s);
y= impulse (s);
stem ( y(1:50))
```



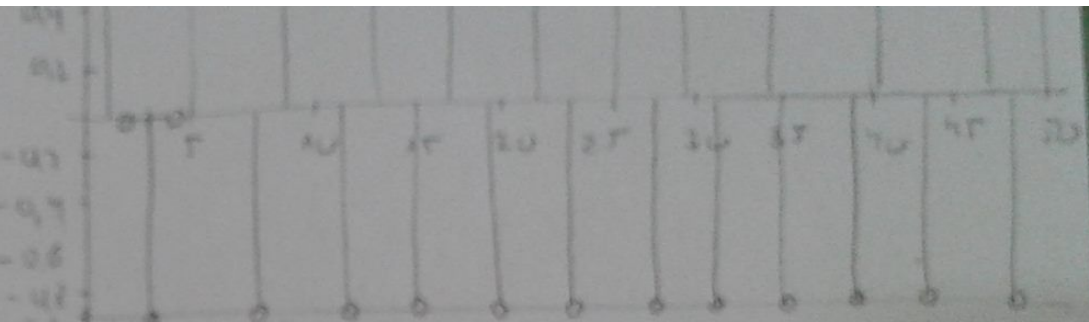
h) odziv mirnog sustava na jediničnu stepenicu

```
B = [1  0  0]
```

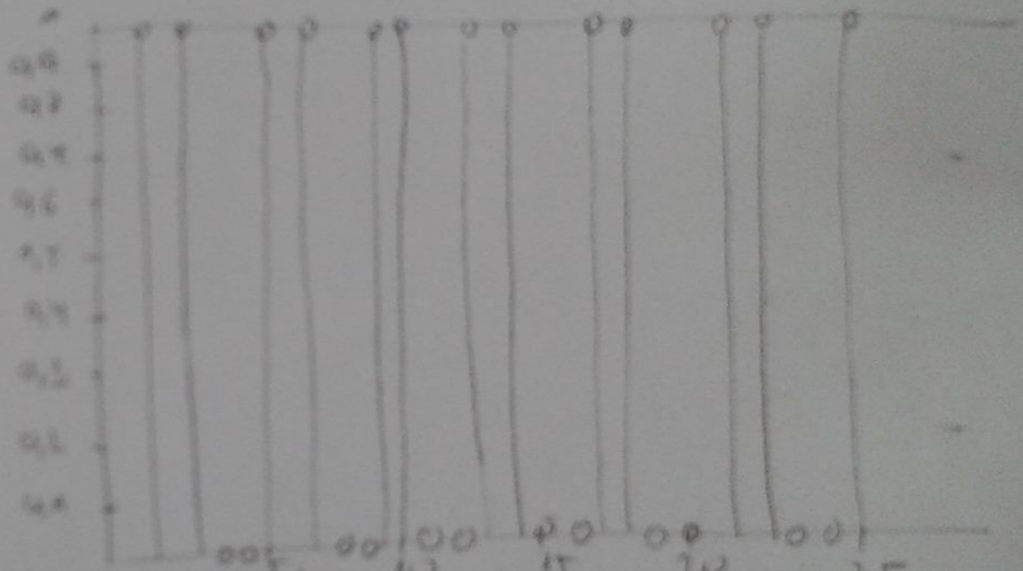


```
A = [ ^  0  ^ ];
S = tf ( B, A, ^);
impulse (S);
y= impulse (S);
stem ( y( ^:50))
```

h) odziv mirnog sustava na jedinicu skepenicu



```
B = [ ^  0  0]
A = [ ^  0  ^] ;
S = tf ( B, A, ^);
impulse (S);
y= skp(S);
stem (y ('^:25))
```

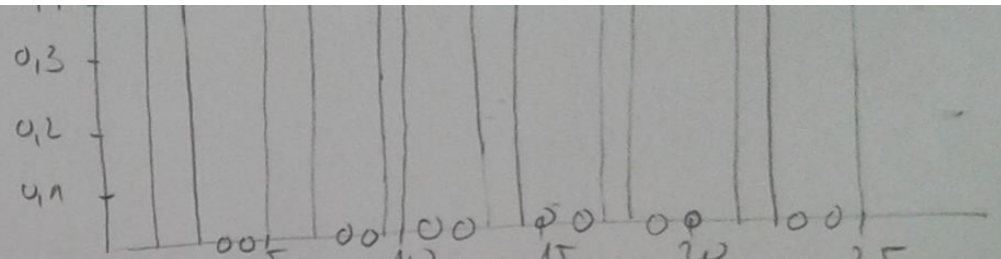


j) odziv mirnog sustava na pobudu $u[n] = \cos\left(\frac{\pi}{2}n\right)\mu[n]$

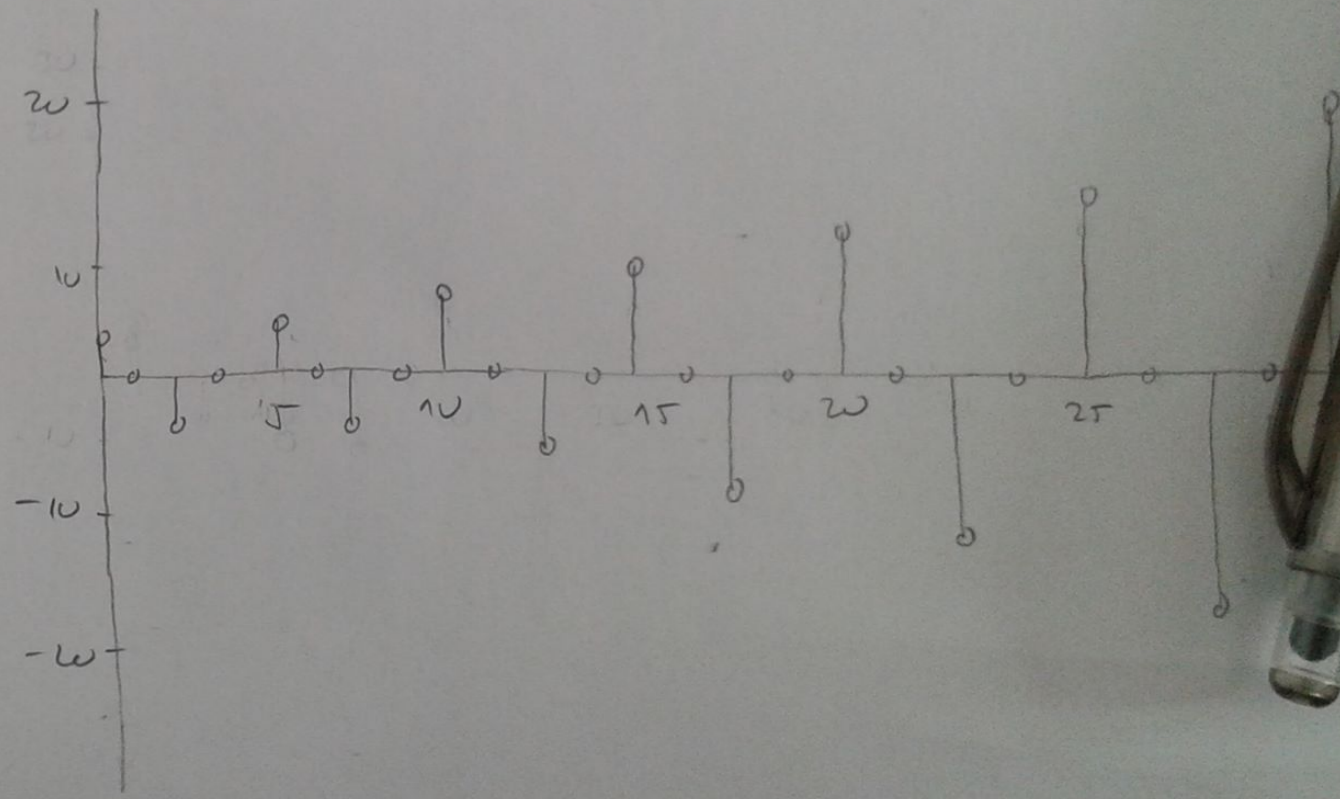
```
h= [0:^:50 ];
=[ ^  0  0];
[ ^  0  ^];
```

```
impulse(s);
y = step(s);
stem(y:(1:25))
```

j) odziv mirnog sustava na pobudu $u(n) = \cos\left(\frac{\pi}{2}n\right)\mu(n)$




```
n = [0:1:50];
B = [1 0 0];
A = [1 0 1];
s = tf(B,A,1);
u = cos((pi/2)*n);
y = filter(B,A,u);
stem(n,y);
```

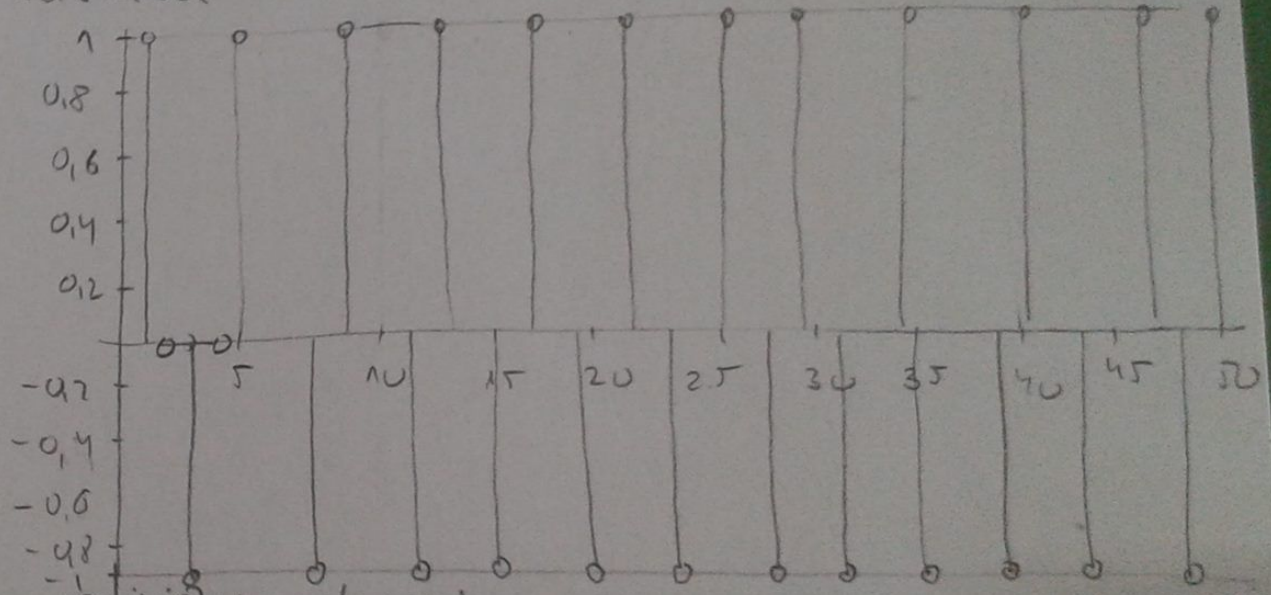


1 zadatak 1)

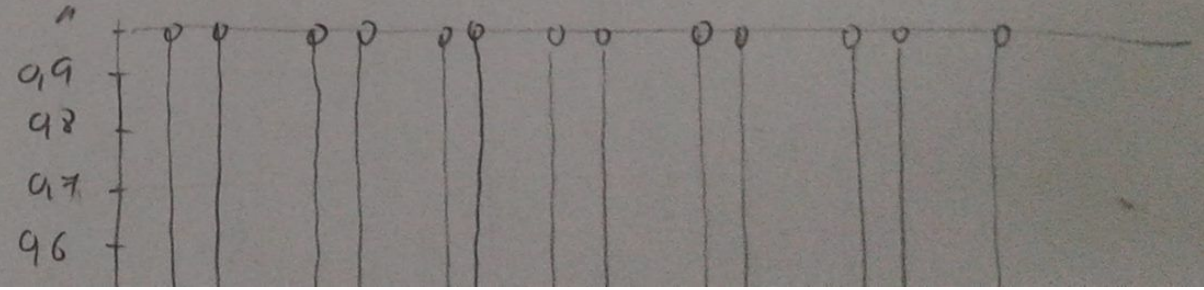
$$y(n) + y(n-2) = \underbrace{u(n)}_{B}, \quad -u(n) = \cos\left(\frac{\pi}{2}n\right)\mu(n)$$

g) odredite impulsni odziv sustava

```
B = [ 1  0  0];
A = [ 1  0  1];
s = tf ( B, A, 1);
impulse (s);
y = impulse (s);
stem ( y(1:50))
```



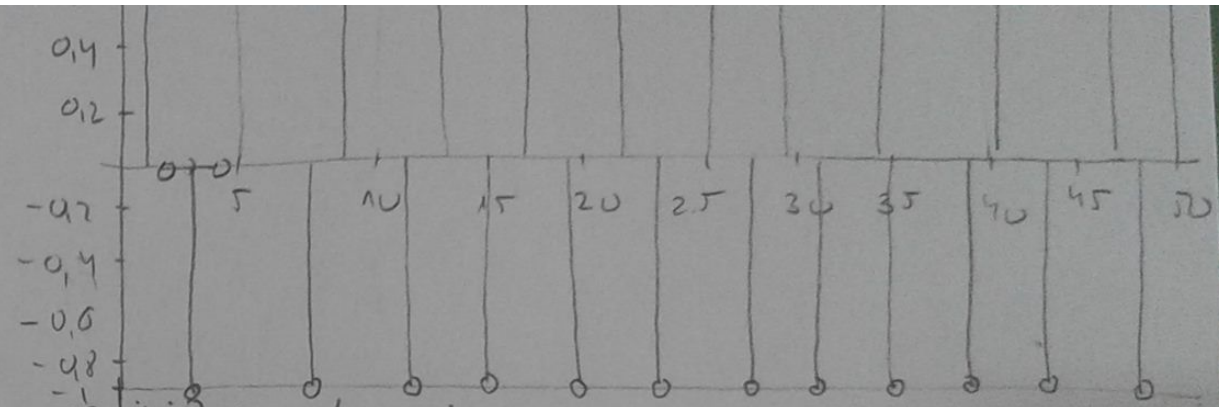
n) odziv mirnog sustava na jediničnu stepenicu




```
B = [1  0  0]
A = [1  0  1];
```

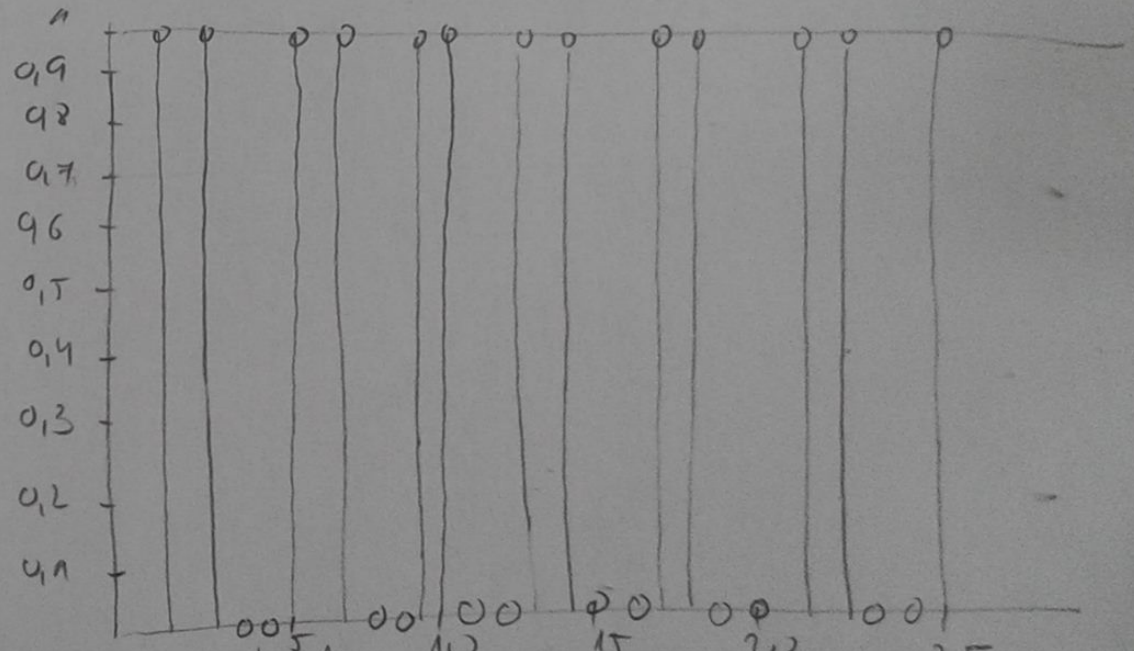
```
A = [ 1  0  1];
S = tf ( B, A, 1);
impulse (S);
y= impulse (S);
stem (y(1:50))
```

h) odziv mirnog sustava na jediničnu stepenicu




```
B = [ 1  0  0]
A = [ 1  0  1];
S = tf ( B, A, 1);
impulse (S);
y= step(S);
stem (y (1:25))
```

j) odziv mirnog sustava na pobudu $u(n) = \cos\left(\frac{\pi}{2}n\right)\mu(n)$




```
h= [0:1:50 ];
```