

1. zadatak 11

$$y(n) + y(n-2) = \underbrace{u(n)}_B$$

$$u(n) = \cos\left(\frac{\pi}{2}n\right) \mu(n)$$

g) odredite impulsi odziv sustava

$$B = \begin{bmatrix} 1 & 0 & 0 \end{bmatrix};$$

$$A = \begin{bmatrix} 1 & 0 & 1 \end{bmatrix};$$

$$S = \text{tf}(B, A, 1);$$

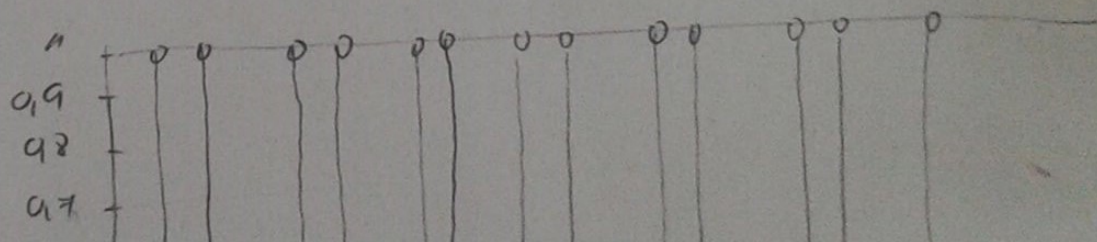
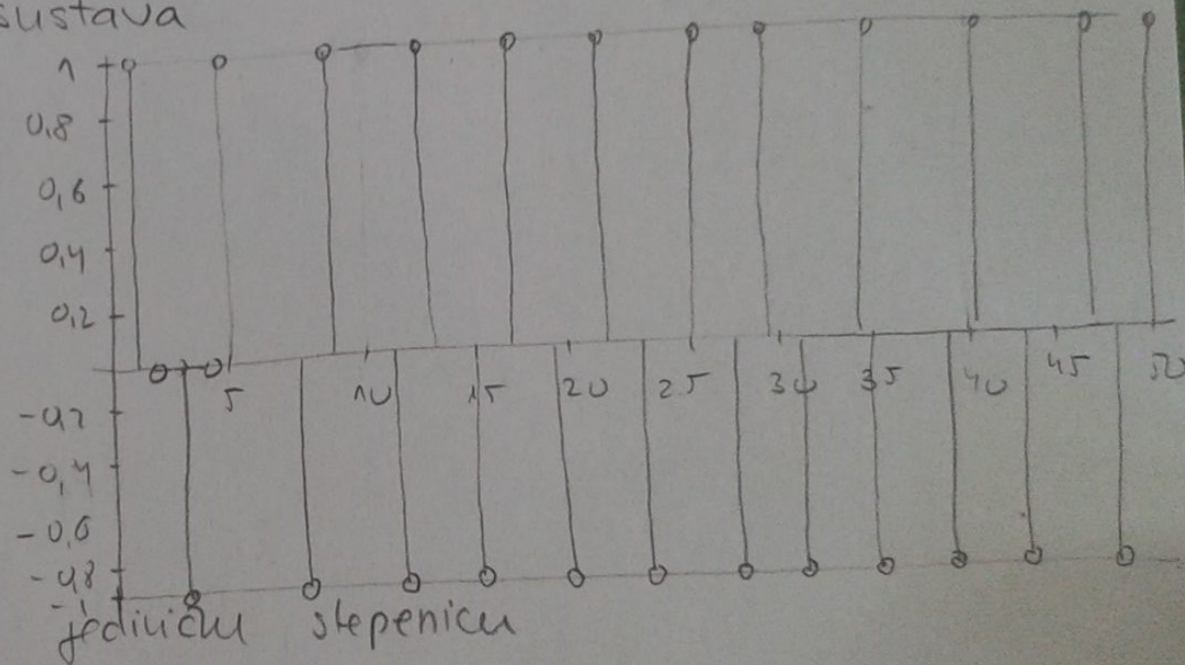
impulse(s);

y = impulse(s);

stem(y(1:50))

h) odziv miwig sustava na

$$B = \begin{bmatrix} 1 & 0 & 0 \end{bmatrix}$$



$$A = \begin{bmatrix} 1 & 0 & 1 \end{bmatrix};$$

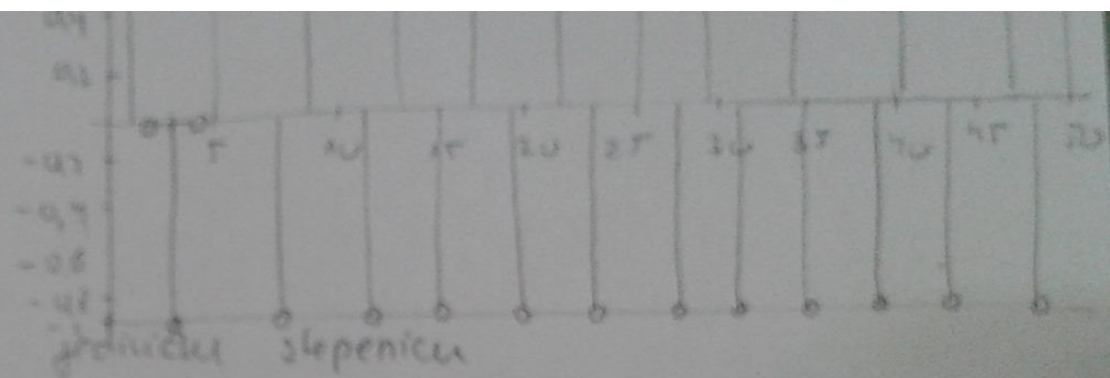
$$S = tf(B, A, 1);$$

impzls(s);

y = impzls(s);

stem(y(1:50))

h) odziv mišiq sustava na



$$B = \begin{bmatrix} 1 & 0 & 0 \end{bmatrix}$$

$$A = \begin{bmatrix} 1 & 0 & 1 \end{bmatrix};$$

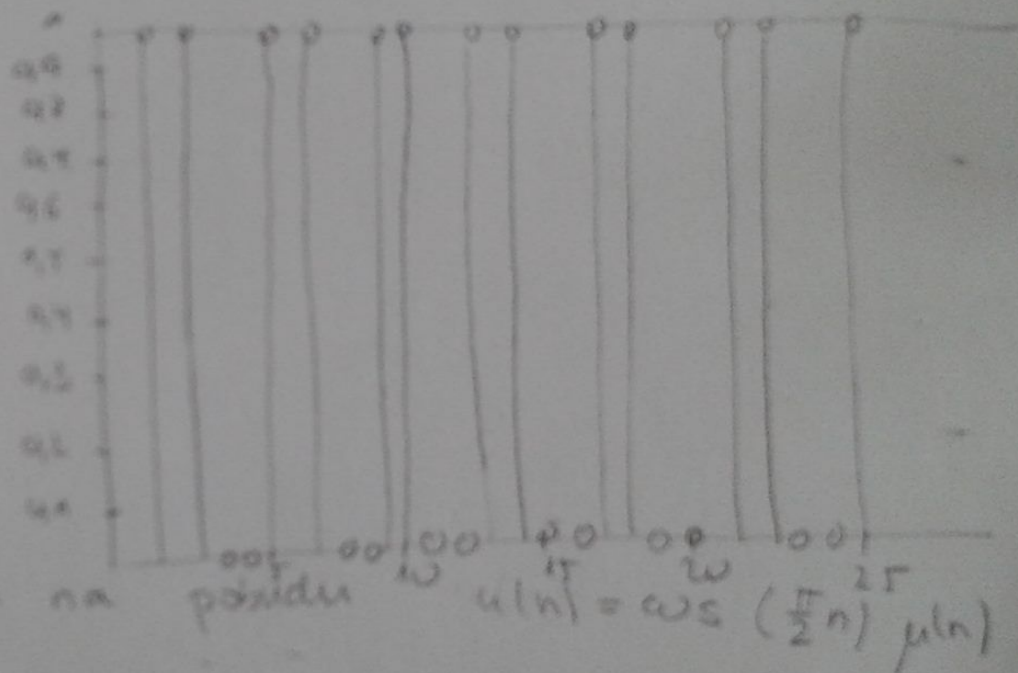
$$S = tf(B, A, 1);$$

impzls(s);

y = step(s);

stem(y(1:25))

j) odziv mišiq sustava na



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

$$B = \begin{bmatrix} 1 & 0 & 0 \end{bmatrix};$$

$$A = \begin{bmatrix} 1 & 0 & 1 \end{bmatrix};$$

20

impulze (s);

$y = \text{step}(s);$

$\text{stem}(y, (1:25))$

j) odziv mikrog

$n = [0:1:50];$

$B = [1 \ 0 \ 0];$

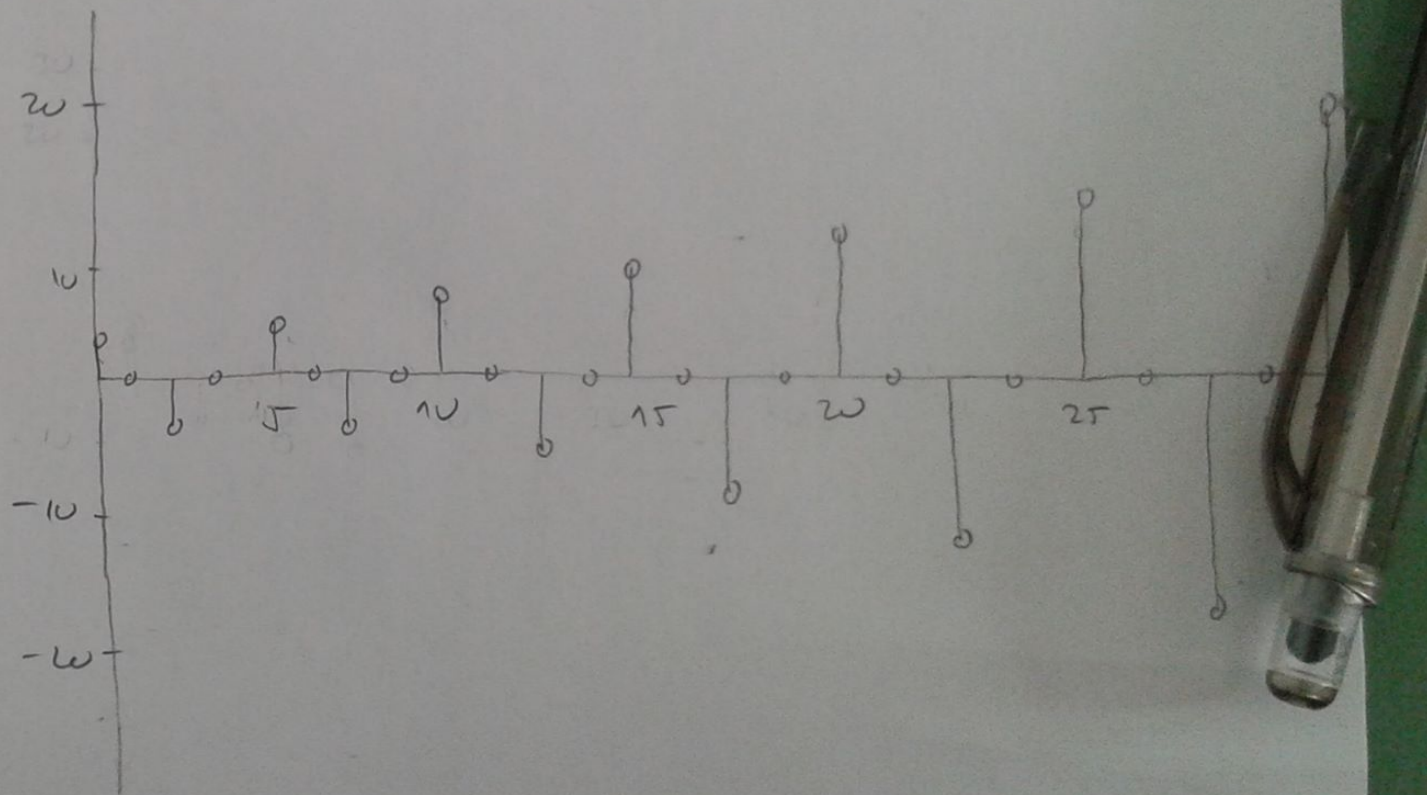
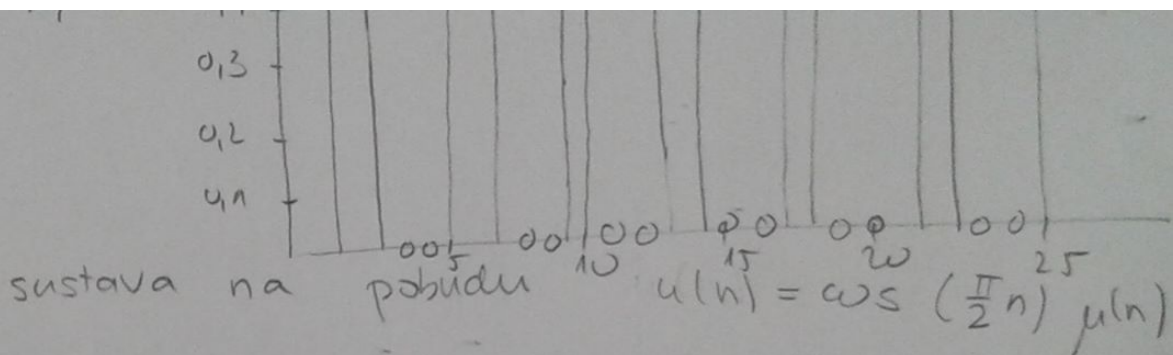
$A = [1 \ 0 \ 1];$

$S = \text{tf}(B, A, 1);$

$u = \cos((\pi/2) * n);$

$y = \text{filter}(B, A, u);$

$\text{stem}(n, y);$



1. zadatok 1)

$$y(n) + y(n-2) = \underbrace{u(n)}_B$$

$$u(n) = \cos\left(\frac{\pi}{2}n\right) \mu(n)$$

g) odredite impulzni odziv sustava

$$B = \begin{bmatrix} 1 & 0 & 0 \end{bmatrix};$$

$$A = \begin{bmatrix} 1 & 0 & 1 \end{bmatrix};$$

$$S = \text{tf}(B, A, 1);$$

impulse(s);

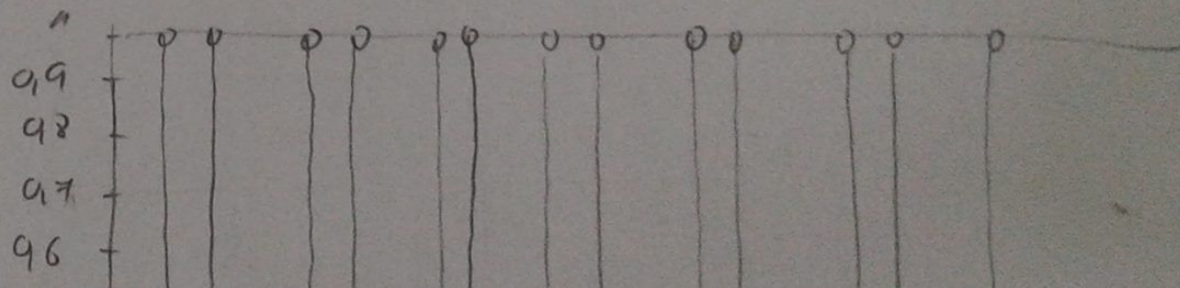
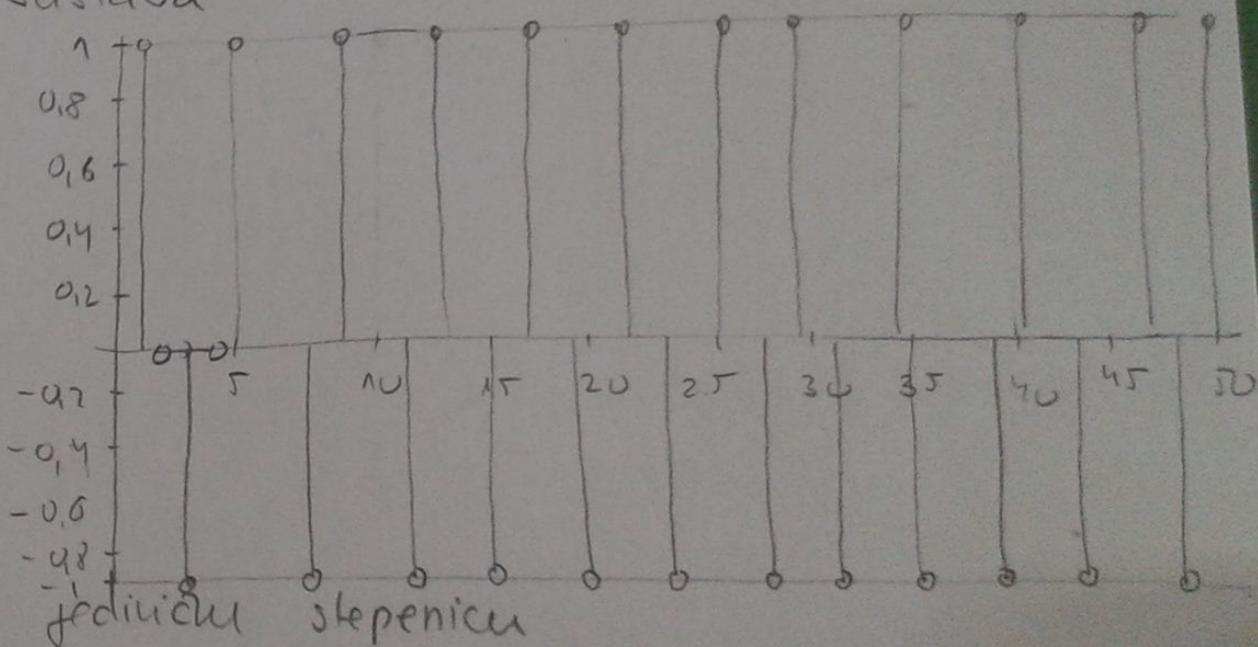
y = impulse(s);

stem(y(1:50))

n) odziv miwq sustava na jediničnu stepenicu

$$B = \begin{bmatrix} 1 & 0 & 0 \end{bmatrix}$$

$$A = \begin{bmatrix} 1 & 0 & 1 \end{bmatrix};$$



$$A = \begin{bmatrix} 1 & 0 & 1 \end{bmatrix};$$

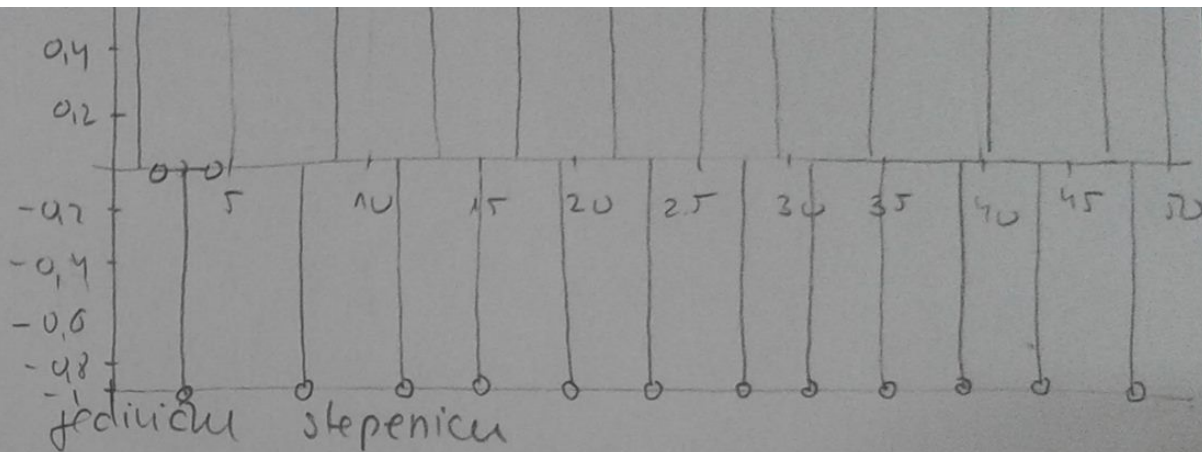
$$S = \{f(B, A, 1);$$

Impulse (s):

 $y = \text{impulse (s)};$

system (y(1:501))

h) odziv mišiq sustava na



$$B = \begin{bmatrix} 1 & 0 & 0 \end{bmatrix}$$

$$A = \begin{bmatrix} 1 & 0 & 1 \end{bmatrix};$$

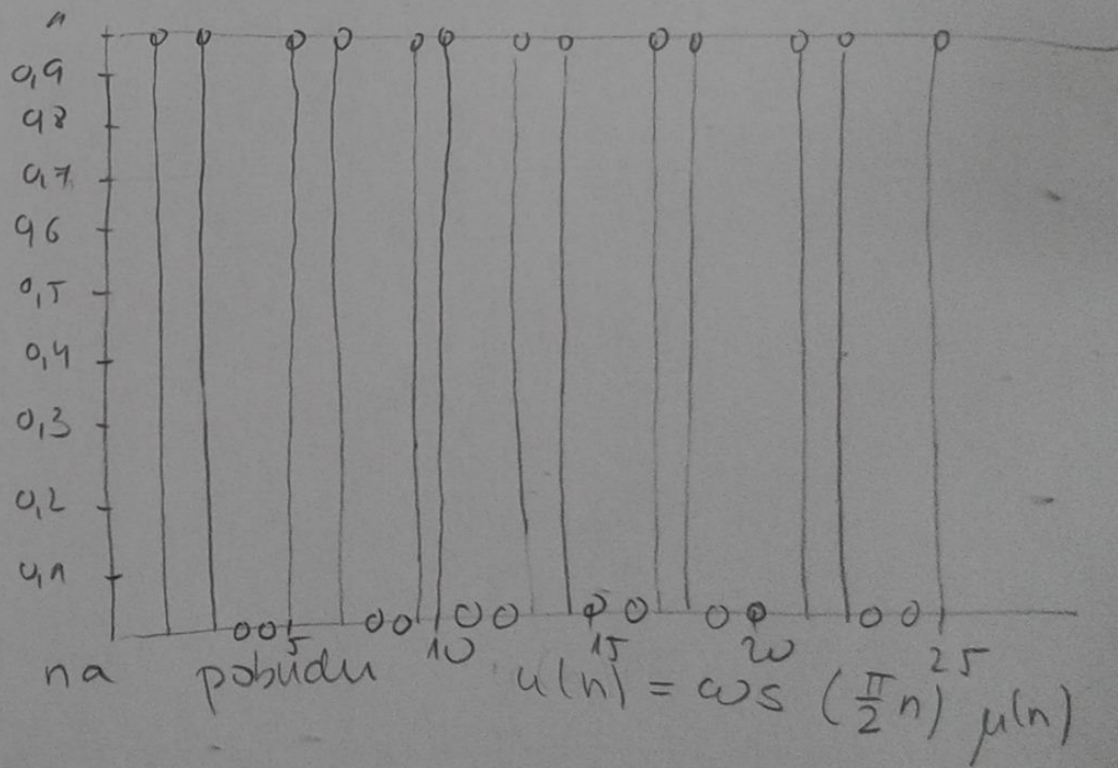
$$S = \{ (B, A, 1) \}$$

impulse (s);

$$y = \text{step}(s);$$

stem (y · ('1:25))

j) odziv mišnog sustava na



$$u(n) = \omega_s \left(\frac{\pi}{2}n\right)^{25} \mu(n)$$

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