

Monday, 23 Jan 2023

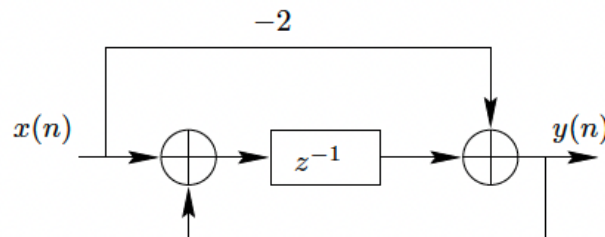
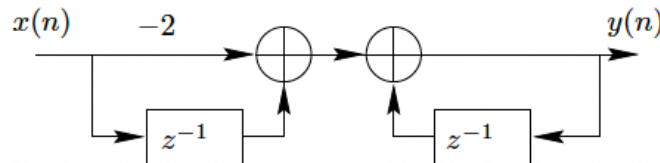
10 points total.

Name: \_\_\_\_\_

UID: \_\_\_\_\_

1. (10 points) Draw the block diagram for the following system:

$$y[n] = y[n - 1] + x[n - 1] - 2x[n]$$

**Solution:**

Both of them are correct!

(Note for the slightly different notation:  $z^{-1}$  stands for the delay  $D$  in our lecture note.)