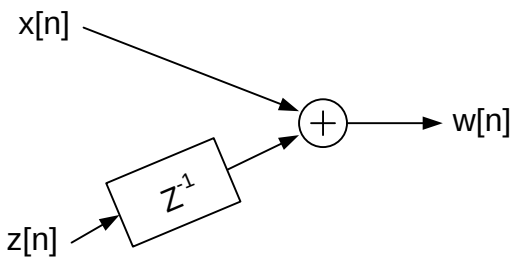
Consider the following set of sequences defined over $-3 \le n \le 3$ and zero elsewhere (i.e. they are finite-length):

x[n] = [3 -2 -1 -1 4 5 2]
y[n] = [0 7 1 -3 4 9 -2]
z[n] = [-5 4 3 6 -5 0 1]
↑

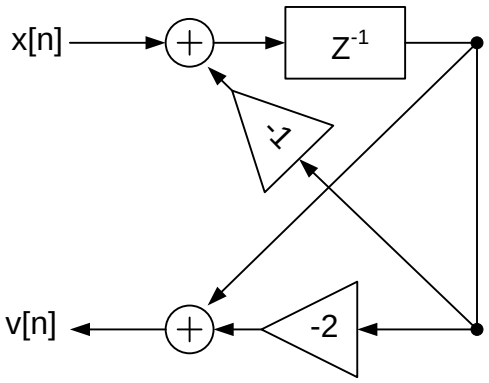
Write each of your answers as a sequence, e.g. [1 2 3 4 5 6]
↑

P1 Find $r[n] = x[n] - 2\,y[n]$ for $-3 \le n \le 3$

P2 Find w[n] for $-3 \le n \le 3$



P3 Find v[n] for $-3 \le n \le 0$



P4 Find s[n] for $-3 \le n \le 3$