

## PROBLEM:

Use the linearity and time delay properties to find the  $z$ -transforms of the following signals

$$x_1[n] = \delta[n]$$

$$x_2[n] = \delta[n - 1]$$

$$x_3[n] = \delta[n - 7]$$

$$x_4[n] = 2\delta[n] - 3\delta[n - 1] + 4\delta[n - 3]$$