

PROBLEM:

Determine the z -transforms of the following:

(a) $x[n] = (\frac{1}{2})^n u[n].$

(b) $x[n] = 3(\frac{1}{2})^n u[n] - (\frac{1}{3})^n u[n - 1].$

(c) $x[n] = \delta[n] + u[n].$