

Contid: -P SECTION B (Page 03);

(06) (a) Gruen $b(n) = T[x(n)] = 5x(n) + 2x(n^2)$. $\frac{Solu:}{5}$ $\frac{So$

Control Section B pase of

O(6b) (num:
$$s(n) = \left(\frac{1}{5}\right)^{n-1}u(n+1)$$
 $s(n) = \left(\frac{1}{5}\right)^{n-1}u(n+1) = 25\left(\frac{1}{5}\right)^{n+1}u(n+1)$

from: $x(n) \rightleftharpoons X(2)$
 $x(n+1) \rightleftharpoons x^{2}(2)$
 $x(n+1) \rightleftharpoons x^{2}(2)$

Properties of z -transform,

taking $x(n)$ as $\left(\frac{1}{5}\right)^{n+1}u(n+1) \rightleftharpoons x^{2}(2)$
 $x(n+1)$ which is $\left(\frac{1}{5}\right)^{n+1}u(n+1) \rightleftharpoons x^{2}(2)$
 $x(n+1)$ which is $\left(\frac{1}{5}\right)^{n+1}u(n+1) \rightleftharpoons x^{2}(2)$
 $x(n) = 25\left(\frac{1}{5}\right)^{n+1}u(n+1) \rightleftharpoons x^{2}(2)$
 $x(n) = x(n)$
 $x(n) = x(n)$



























