



TOPIC 4: TUTORIAL 1

Problems: Find the z – transforms of the following functions

(i)  $\frac{1}{(n+1)(n+2)}$

(ii)  $r^n \cos n\theta$  and  $r^n \sin n\theta$

(iii)  $\frac{1}{(n+1)!}$

(iv)  $n^2$

(v)  $n^2 a^n$