

4) Time Scaling :x(1) -2, X(5)

$$\chi(\alpha t) \longrightarrow \frac{1}{|\mathcal{L}|} \times (\frac{s}{\lambda})$$
 ROC: $\frac{R}{\alpha}$

Of d>1 compression in ROC Oddel expansion in ROC

Convolution :-

$$\chi_{i}(1) \rightarrow \chi_{1}(s)$$

 $RoC = R_1$

$$\chi_2(t) \rightarrow \chi_2(s)$$

ROC = R2

(6) Differentiation in time domain: -

$$\chi(t) \rightarrow \chi(s)$$

ROC: R

$$\frac{dx(l)}{dx(s)} \rightarrow SX(s)$$

ROC: R

Differentiation in 5-domain :-

$$x(t) \rightarrow X(s)$$

ROC = R

$$- t_{x(t)} \longrightarrow \frac{dx(s)}{ds}$$

ROC = R

