$$F(i) : \frac{1}{\Delta T} \delta(t-n\Delta T)$$

$$F(i) : \frac{1}{\Delta T} \sum_{n=0}^{\infty} \delta(t-n\Delta T)$$

$$f(i) :$$

 $=\frac{1}{\Delta T}\sum_{n=0}^{\infty}F\left(\Delta -\frac{n}{\Delta T}\right)$ 

₹(+) ←> F(+)

Former Tremsform af a sampled for 18 on infinite, periodic sequence of copies of & (m), the thems from of the original, Continuous & I. . T

Sampling Prusum: -

A Continuous, bound-limited for Com be The Corened completely from a set of is's samples if the samples are actived at a oute exceeding time the highest free Consent of the 10  $\frac{1}{07}$  > 2 h men

1 7 2 mm - 1 0 resomp 1/19

1 = 2 Marca -> Critically-Sampling.

1 < 2 hmm -> under-Sompling.

FT of one variable.

$$\widehat{F}(n) : \int_{0}^{\infty} \widehat{F}(i) e^{-j2\pi i M} di$$

$$: \int_{0}^{\infty} \widehat{Z} f(i) \delta(i-n\alpha T) e^{j2\pi n i} di$$

$$: \int_{0}^{\infty} \widehat{Z} f(i) \delta(i-n\alpha T) e^{j2\pi n i} di$$

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$$: \int_{0}^{\infty} \widehat{Z} f(i) \delta(i-n\alpha T) e^{j$$

DET 
$$f_n : \frac{m!}{n!} f_n = \frac{-72\pi mn/m}{m!} \frac{m!}{m!} f_n : \frac{m!}{m!} f_n = \frac{i2\pi mn/m}{m!} \frac{m!}{m!} f_n : \frac{m!}{m!} f_n = \frac{i2\pi mn/m}{m!} \frac{m!}{m!} f_n : \frac$$

$$F(2): ?$$
  $F(3): ?$   $F(2): \lor, F(3): \lor$