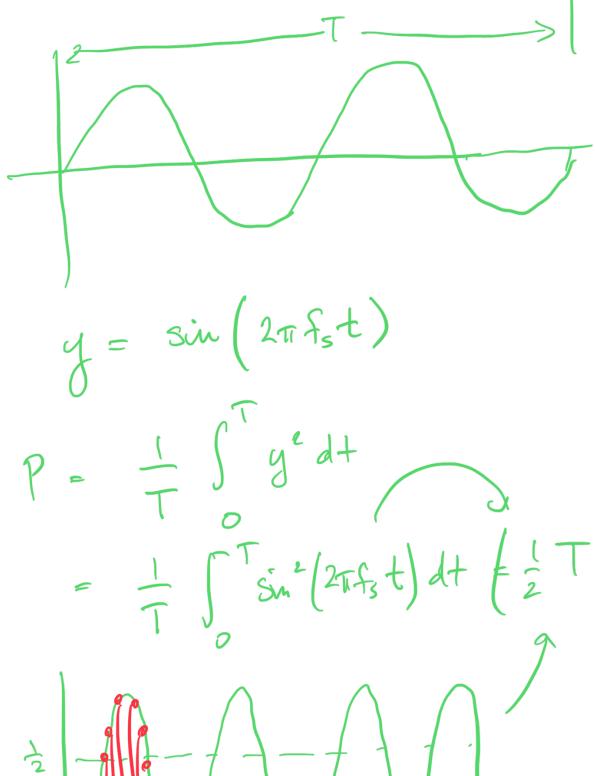
Fourier Intogals



$$P = \frac{1}{2} \qquad \text{And } r$$

$$V = \frac{1}{2} \text{ Sin} \left(\frac{2\pi n}{T} r \right)$$

$$P = \frac{1}{T} \int_{0}^{T} \left(\frac{2\pi n}{T} r \right) dt$$

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$$\frac{1}{T} \sum_{n=1}^{\infty} b_n^2 \sum_{i=1}^{\infty} \frac{2\pi n t_i}{T} dt$$

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$$\frac{1}{T} \sum_{n=1}^{\infty} a_n \cos \left(\frac{2\pi n t_i}{T} t\right) dt$$

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$$= \frac{1}{1 + \frac{2}{1 +$$

(Also true for
$$\int_{0}^{T} \sin \left(\frac{2\pi n}{T}\right)^{\frac{1}{2}}$$

= $\frac{1}{T} \int_{0}^{T} \frac{do}{2} dt$

= $\frac{1}{T} \int_{0}^{T} \frac{do}{2} dt$

Note: T is the entire span!.

When we has $\int_{0}^{T} \frac{1}{T} dt dt$, we see that

 $-T_{12}$
 $a_{0} = \frac{2}{T} \int_{0}^{T} \frac{1}{T} dt dt$
 $= \frac{1}{T} \int_{0}^{T} \frac{1}{T} dt dt$

$$\frac{1}{7} \int_{0}^{7} g(t) \sin \left(\frac{2\pi n}{T} t\right) dt$$

$$= \frac{1}{7} \int_{0}^{7} \int_{0}^{2\pi n} dt dt$$

$$= \frac{1}{7} \int_{0}^{7} \int_{0}^{7} dt dt$$

$$= \sum_{m=1}^{\infty} \int_{0}^{\infty} \int_{0}^{\infty}$$

$$\partial_{0} = \frac{2}{T} \int_{0}^{T} y(t) \sin(\frac{2\pi n}{T}t) dt$$

$$\partial_{0} = \frac{2}{T} \int_{0}^{T} y(t) \cos(\frac{2\pi n}{T}t) dt$$

$$\partial_{0} = \frac{2}{T} \int_{0}^{T} y(t) dt$$

$$\begin{aligned}
\rho_n &= q_n^2 + b_n^2 \\
\rho &= \int_{\text{this}}^{f_{\text{max}}} P(f) df \\
\frac{1}{f_{\text{max}}} \int_{\text{p}}^{f_{\text{max}}} P(f) df
\end{aligned}$$

(Tens both like
$$(2\pi n t) = 2\pi f_n t$$

$$f_n = \frac{n}{T}$$

$$\int max = \frac{m_{\text{max}}}{T}$$

$$\int \int dt$$