Special Topic: Poisson Summation Formula

$$X^{(k)} \qquad X^{(k)} \qquad X^$$

Now let's go buck to finding the former coefficients of P
Here
$$W_0 = \frac{2\pi}{2\pi} = 2\pi$$

So
 $P_n = \frac{1}{1} \int_0^\infty P(t) e^{-2\pi i f n t} dt$
 $= \int_0^1 \sum_{k=0}^\infty \chi(t-k) e^{-2\pi i n t} dt$
 $= \sum_{k=0}^{1} \int_0^\infty \chi(t) e^{2\pi i n t} dt$
 $\lim_{k \to 0} \chi(t-k) = \sum_{k=0}^{1} \chi(t) e^{2\pi i n t} dt$
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 $\lim_{k \to 0} \chi(t) e^{2\pi i n t} dt$
 $= \int_0^\infty \chi(t) e^{-2\pi i n t} dt$
 $= \chi(2\pi n)$
Now i uniting P as a frave series:
 $P(t) = \sum_{m=0}^{1} \chi(2\pi n) e^{2\pi i n t}$
 $\lim_{k \to 0} \chi(2\pi n) e^{2\pi i n t}$
 $\lim_{k \to 0} \chi(i-n) = \sum_{m=0}^{\infty} \chi(2\pi n) e^{2\pi i n t}$
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 $\lim_{k \to 0} \chi(n) = \sum_{m=0}^{\infty} \chi(2\pi n)$
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 $\lim_{k \to 0} \chi(n) = \frac{\pi}{2\pi i n t} \chi(2\pi n)$
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 $\lim_{k \to 0$

Note: The Sampling Theorem, which we'll see week 7, can be viewed as a sefermulation of the Poisson Summetion formula. However, we'll derive it a distant way in leature.