$$\varphi(x) = \varphi(x) + \varphi(x) + \varphi(x) + \varphi(x) + \varphi(x)$$

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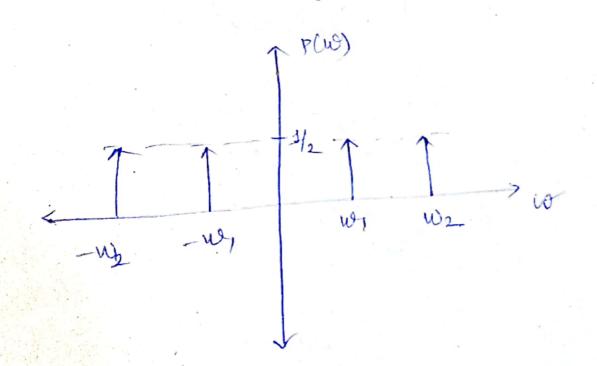
$$\varphi(x) = \varphi(x) + \varphi(x)$$

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$$\varphi(x) = \varphi(x)$$

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b)
$$P[n] = cos(w, nT_{\mathcal{E}}) + cos(w_{\mathcal{E}}, nT_{\mathcal{E}})$$
 $P(c^{jw}) = \sum_{n=-\omega}^{\infty} P[n] e^{jwn}$
 $T = -\omega$
 $= T\left(\sum_{k=-\omega}^{\infty} (S(w-w_{\mathcal{E}}T_{\mathcal{E}}-2\pi k) + S(w+w_{\mathcal{E}}T_{\mathcal{E}}) + S(w+w_{\mathcal{E}}T_{\mathcal{E}}-2\pi k)\right)$
 $+\sum_{k=-\omega}^{\infty} (w-w_{\mathcal{E}}T_{\mathcal{E}}-2\pi k)$
 $+\sum_{k=-\omega}^{\infty} (w+w_{\mathcal{E}}T_{\mathcal{E}}-2\pi k)$
 $+\sum_{k=-\omega}^{\infty} (w+w_{\mathcal{E}}$

