EE-3032, HW-5

CTFS including infinite series

Problems from the Chaparro text:

- 4.5, part (iii) only (p. 320)
- 4.7, part (a) only
- 4.9, find Y_k only

$$X = \{\frac{1}{2}, 0, \frac{1}{2}, 0, 0, 0, 0, 0, \frac{1}{2}, 0, \frac{1}{2}\}$$
 $|X_{k}|$
 $|X_{k}|$

(iii)
$$dx \times dt = 0$$
? $x \in \mathbb{R} \subset \mathbb{C} - x(t) = c_0 + 2 \in \mathbb{C} \subset (k\pi t)$

(iv) Chefrep. comp
$$f \times (4)$$
 i $A \cos(3\pi t)$. $A=?$

$$k=J \quad X_3 = \frac{3}{4+(3\pi)^2} = \frac{3}{4+9\pi^2} = C_3 - id_3. \quad A=2c_3 = \frac{6}{4+9\pi^2} = 0,064 + 636...$$

To= 277 5

y(t) =
$$2x(t) - 3$$
. Note, the doesn't change Δ_0 of organical $\forall_k = 2x_k - 3$ { From transform is linear opposition $d_k = 2x_k - 38(k)$ { From $d_k = 2x_k - 38(k)$ {