(i) 
$$\frac{1}{3} \left( \widetilde{y}_{n-1} + \widetilde{y}_n + \widetilde{y}_{n+1} \right)$$

$$n=1: \frac{1}{3}(\widetilde{y}_0 + \widetilde{y}_1 + \widetilde{y}_2)$$
  $n=1: \frac{1}{3}(y_3 + y_1 + y_2)$ 

$$n = 2 : \frac{1}{3} (\widetilde{y}_1 + \widetilde{y}_2 + \widetilde{y}_3) \implies n = 2 : \frac{1}{3} (y_1 + y_2 + y_3)$$

$$n = 3 : \frac{1}{3} (\tilde{y}_2 + \tilde{y}_3 + \tilde{y}_4)$$
 $n = 3 : \frac{1}{3} (\tilde{y}_2 + \tilde{y}_3 + \tilde{y}_4)$ 
 $(\tilde{y}_1)$ 

$$x(t) := \frac{1}{3} \cdot 1_{\xi-1,0,13}(t)$$
  $-\frac{1}{3} \cdot \frac{1}{2} \cdot \frac{1}{2}$ 

(ii) The zero padding must be infinite.