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

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

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

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

$$x(t) := \frac{1}{3} \cdot 1_{\xi-1,0,13}(t) \qquad \underset{h=1}{\overset{1}{3}} \cdot t \in \mathbb{Z}$$

$$x \in \mathbb{R}^{\ell} \Rightarrow x = (x_1) \times (-1)$$

$$x \in \mathbb{R}^{\ell} \Rightarrow x = (x_2) \times (-1)$$

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(ii) The zero padding must be infinite. y would not be periodic