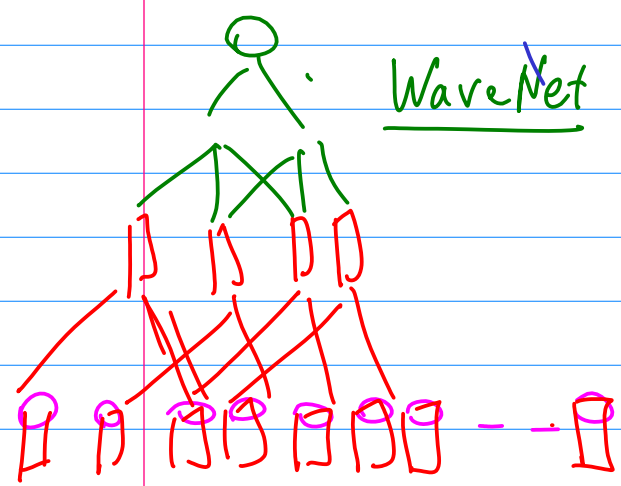
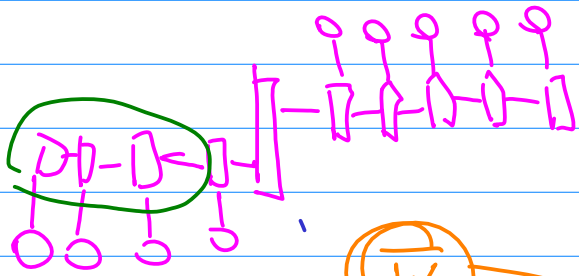
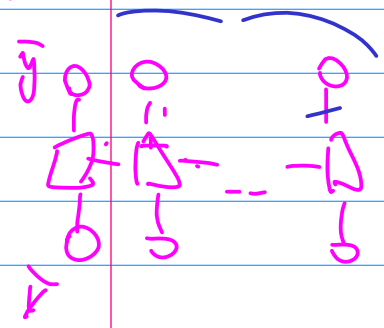
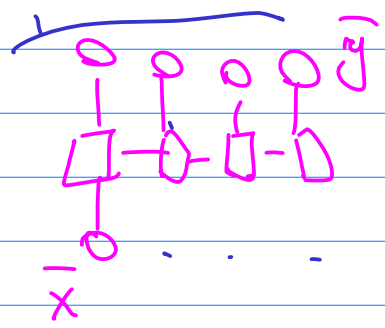
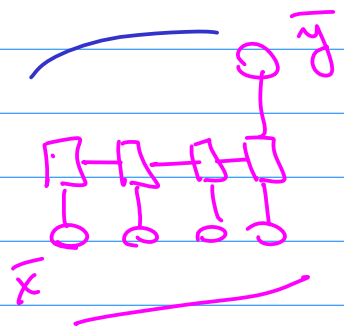
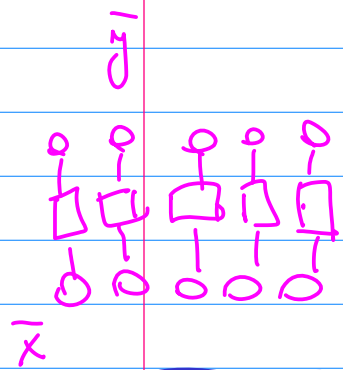
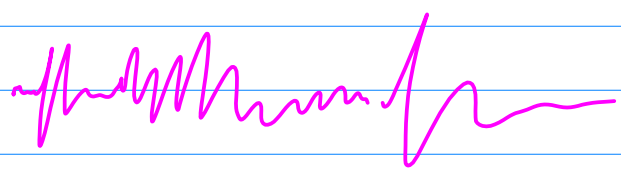
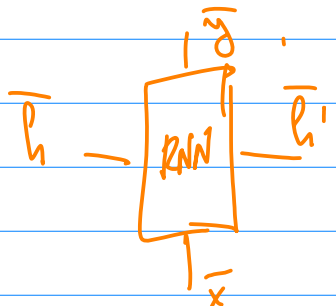
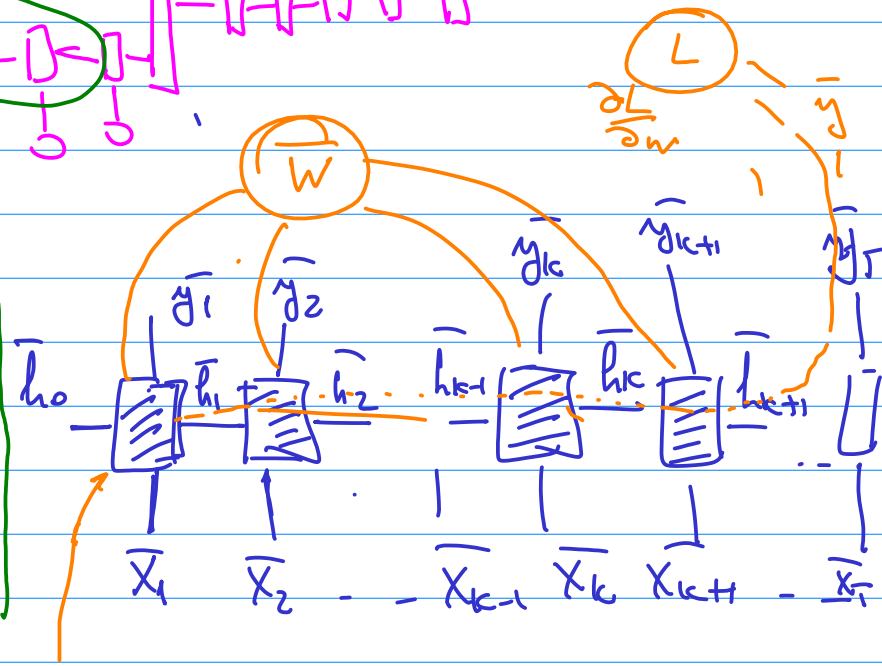
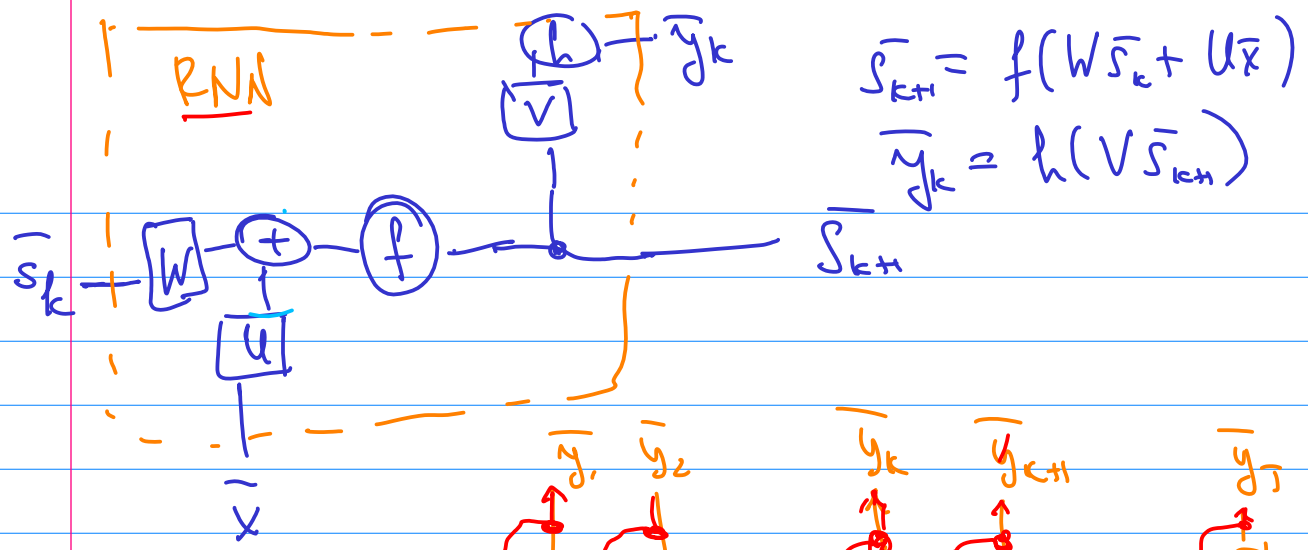


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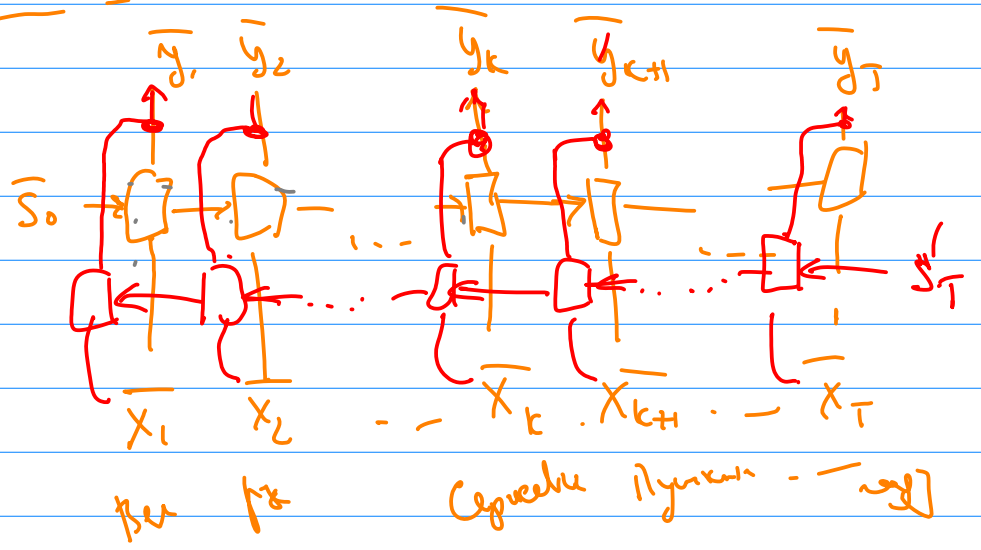


WaveNet





Bidirectional RNN



$$\bar{y}^T = h(V \cdot s^T) = h(V f(W s^{T-1} + U \bar{x}^{T-1})) = h(V (f(W (f(V \dots)) \bar{x}_1^T)))$$

$$h(V (W^T s_0, t^{W^{T-1}}))$$

exploding gradients $\|W\| \geq 1 \Rightarrow \infty$
 Vanishing gradients $\|W\| < 1 \Rightarrow 0$

