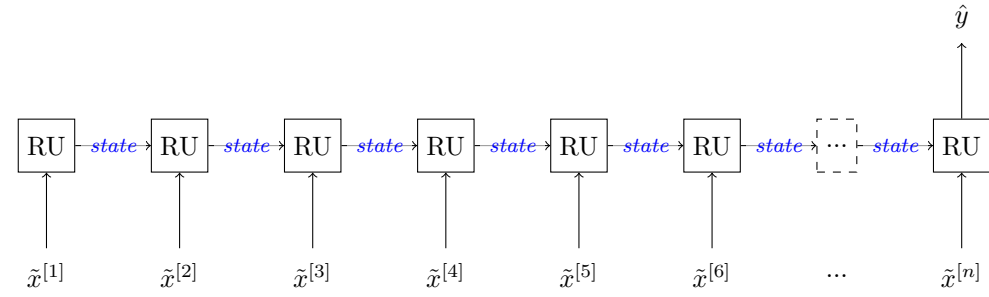
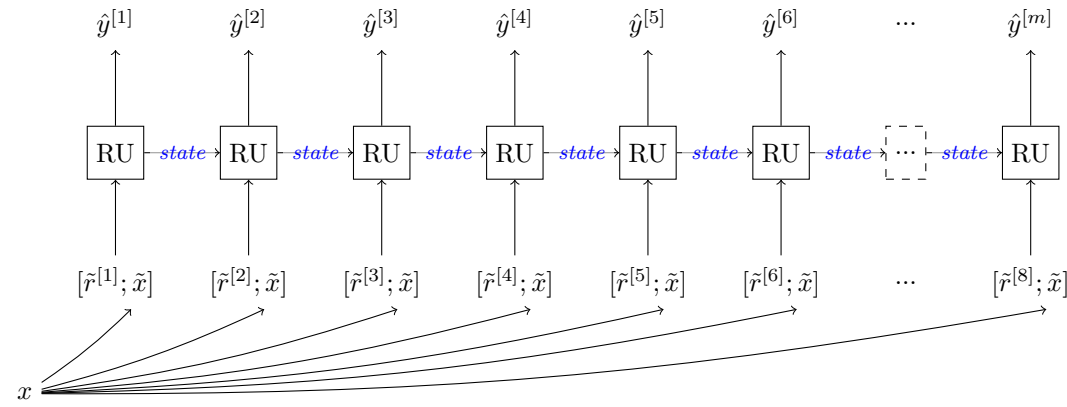


**RNN Encoder:**  
 Variable  $n$  inputs:  $\tilde{x}^{[t]}$   
 1 output:  $\hat{y}$



**RNN Decoder:**  
 1 input:  $x$   
 variable  $m$  outputs:  $\hat{y}^{[t]}$   
 with prompts:  $\tilde{r}^{[t]}$  (often  $\hat{y}^{[t-1]}$ )



**RNN Encoder-Decoder:**  
 Variable  $n$  inputs:  $\tilde{x}^{[t]}$   
 Variable  $m$  outputs  $\hat{y}^{[t]}$   
 Prompts:  $\tilde{r}^{[t]}$  (often  $y_{t-1}$ )

