temp1_nodoubleMD

September 30, 2020

[1]: # #### Question 1a.

hi my name is giraffe i like to pirouette during nutracker ballet

```
# $$
     # \mathbf{S} = \left[\begin{array}
     # {rr}
     # 10.9 & -12.7 \\
     # -12.7 & 26.7
     # \end{array}\right]
     # $$
     # $$
     # \begin{array}{ll}
     \# r_t = \text{sigmoid}(W_{ir} x_t + b_{ir} + W_{hr} h_{t-1} + b_{hr}) \
     \# z_t = \text{sigmoid}(W_{iz} x_t + b_{iz} + W_{hz} h_{t-1} + b_{hz}) \
     \# n_t = \text{text}\{tanh\}(W_{in} x_t + b_{in} + r_t * (W_{hn} h_{t-1} + b_{hn})) \
     \# h_t = (1 - z_t) * n_t + z_t + h_{t-1} \setminus
     # \end{array}
     # $$
[2]: mylist = [1,2,3,4]
     print(mylist)
    [1, 2, 3, 4]
[3]: # This is a formula here:
     # $$
     \# x^2 + y^3 + 4*zyx
     # $$
[4]: mylist.append(5)
     mylist
[4]: [1, 2, 3, 4, 5]
[5]: print("hi my name is giraffe i like to pirouette during nutracker ballet")
```

```
[6]: # $$
# \sum_{n = 0}^{\infty} \frac {x^n} {n!}
# $$
```