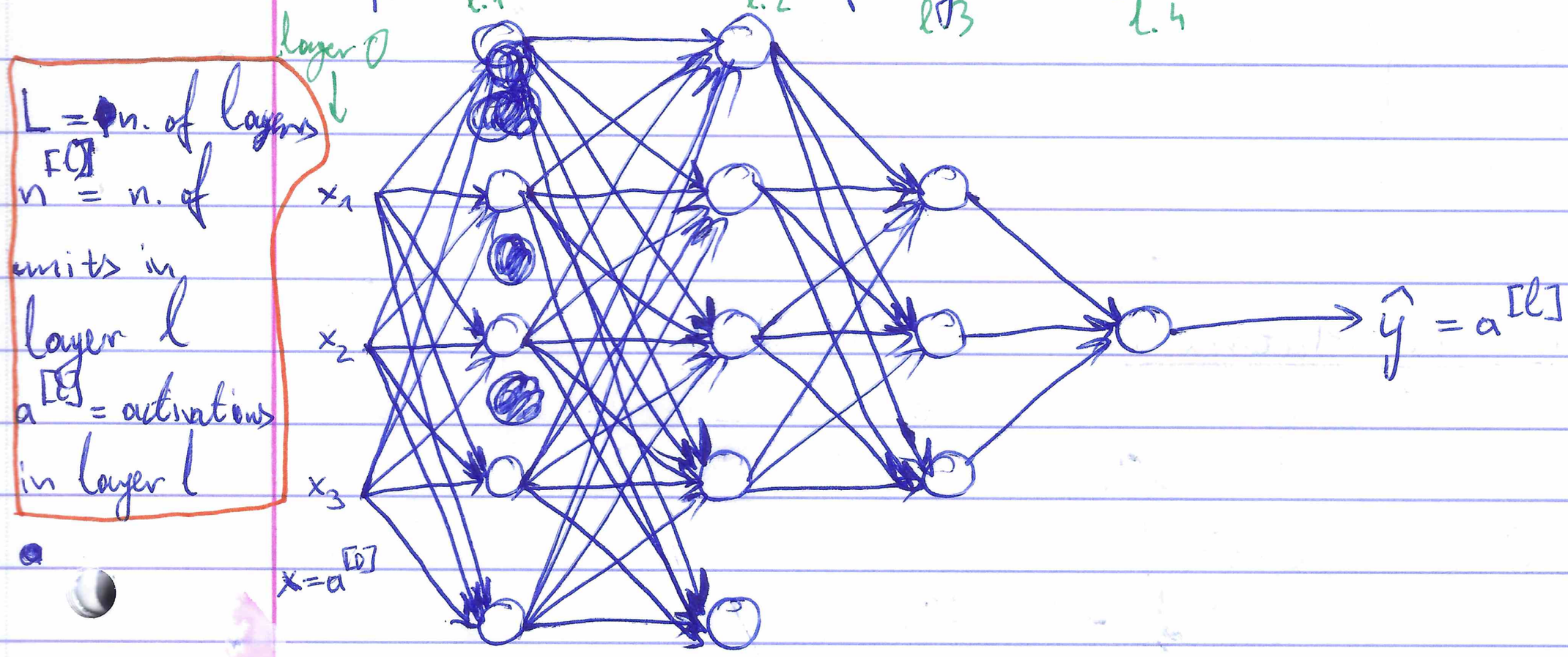
WEEK 4: DEEP NNs

Learning objectives:
- See deep NNs as sucessive blocks put one after each other
- Build and train a deep L-layer NN
- Analyse matrix and vector dimensions to check NN implementation
- Understand how to use a cache to pass info from for.prop to backprop.
- Understand the role of hyperparameters in DL

Deep L-layer NN

"Deep": $\geq$ a certain n. of layers (L)



L = 4

$n^{[1]} = 5$, $n^{[2]} = 5$, $n^{[3]} = 3$, $n^{[4]} = n^{[L]} = 1$

$n^{[0]} = n_x = 3$

$a^{[l]} = g^{[l]}(z^{[l]})$

$W^{[l]}$ = weights for $z^{[l]}$

$b^{[l]}$