Exercícios (E_8) , UnB, semestre 2022/1
Fundamentos de Sistemas Inteligentes, CiC, UnB
Prof. Díbio
Estudante:……...Matrícula:……

**** Resolva este exercício e entregue no prazo especificado no ambiente *moodle* (aprender3.unb.br). Faça com caneta escura, fotografe ou digitalize, e envie em formato .jpg ou .pdf no *moodle.***

1. Do livro "Machine Learning", Tom Mitchell, 1997.

4.7. Consider a two-layer feedforward ANN with two inputs a and b, one hidden unit c, and one output unit d. This network has five weights (w_{ca}, w_{cb}, w_{c0}, w_{dc}, w_{d0}), where w_{x0} represents the threshold weight for unit x. Initialize these weights to the values (.1, .1, .1, .1, .1), then give their values after each of the first two training iterations of the BACKPROPAGATION algorithm. Assume learning rate $\eta = .3$, momentum $\alpha = 0.9$, incremental weight updates, and the following training examples:

a	b	d
1	0	1
0	1	0