Perceptron Homework Assignment: Fill in the cells to get the weights after step 5

Index	Pattern				Target	Weight Vector				Net Output	z	LR	Error	Multiplier (Target - Z) x LR	ΔW				Wnew			
	x1	x2	x3	bias		w1	w2	w3	bias						w1	w2	w3	bias	w1	w2	w3	bias
0	1	0.1	0.1	1	0	0.35	-0.2	-0.1	0.25	0.57	1	0.25	true (-1)	-.25	-.25	-.025	-.025	-.25	.1	-.225	-.125	0
1	0.9	0.1	0.5	1	1	.1	-.225	-.125	0	.005	1	0.25	False (0)	0	0	0	0	0	.1	-.225	-.125	0
2	0.1	0.1	0.1	1	0	.1	-.225	-.125	0	-.025	0	0.25	0	0	0	0	0	0	.1	-.225	-.125	0
3	0.1	0.1	0.5	1	1	.1	-.225	-.125	0	-.05	0	0.25	1	.25	.025	.025	.125	.25	.125	-.2	0	.25
4	0.1	1	0.2	1	0	.125	-.2	0	.25	.0625	1	0.25	-1	-.25	.025	-.25	-.05	-.25	.1	-.45	-.05	0
5	0.1	0.9	0.6	1	1	.1	-.45	-.05	0	-.425	0	0.25	1	.25	.025	.225	.15	.25	.125	-.225	.1	1.25

Error = target − Z

Multiplier = (target − Z) × LR

ΔW = Multiplier · x_i

W_{new} = w_i + Δw_i

Z = 1   if   Net ≥ 0

Z = 0   if   net < 0

Net output = x1 × w1 + x2 × w2 + x3 × w3 + Bias × Bias wght