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CMPT 465 - Assignment 2

The weight w1 implements the i/o mapping for the first output.

The weight w2 does not implement the i/o mapping for the second output.

W1(0.25, 0.25, 0.75, 0.25) w2(-0.25, -0.25, 0.25, 0.75)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| x1 | x2 | x3 | **sgn(z)1** | f(x1,x2,x3) | **sgn(z)2** | f(x1,x2,x3) |
| 1 | 1 | 1 | **1** | 1 | **1** | 1 |
| 1 | 1 | -1 | **1** | 1 | **-1** | -1 |
| 1 | -1 | 1 | **1** | 1 | **1** | -1 |
| 1 | -1 | -1 | **-1** | -1 | **-1** | -1 |
| -1 | 1 | 1 | **1** | 1 | **1** | 1 |
| -1 | 1 | -1 | **1** | 1 | **-1** | -1 |
| -1 | -1 | 1 | **-1** | -1 | **1** | 1 |
| -1 | -1 | -1 | **-1** | -1 | **-1** | -1 |