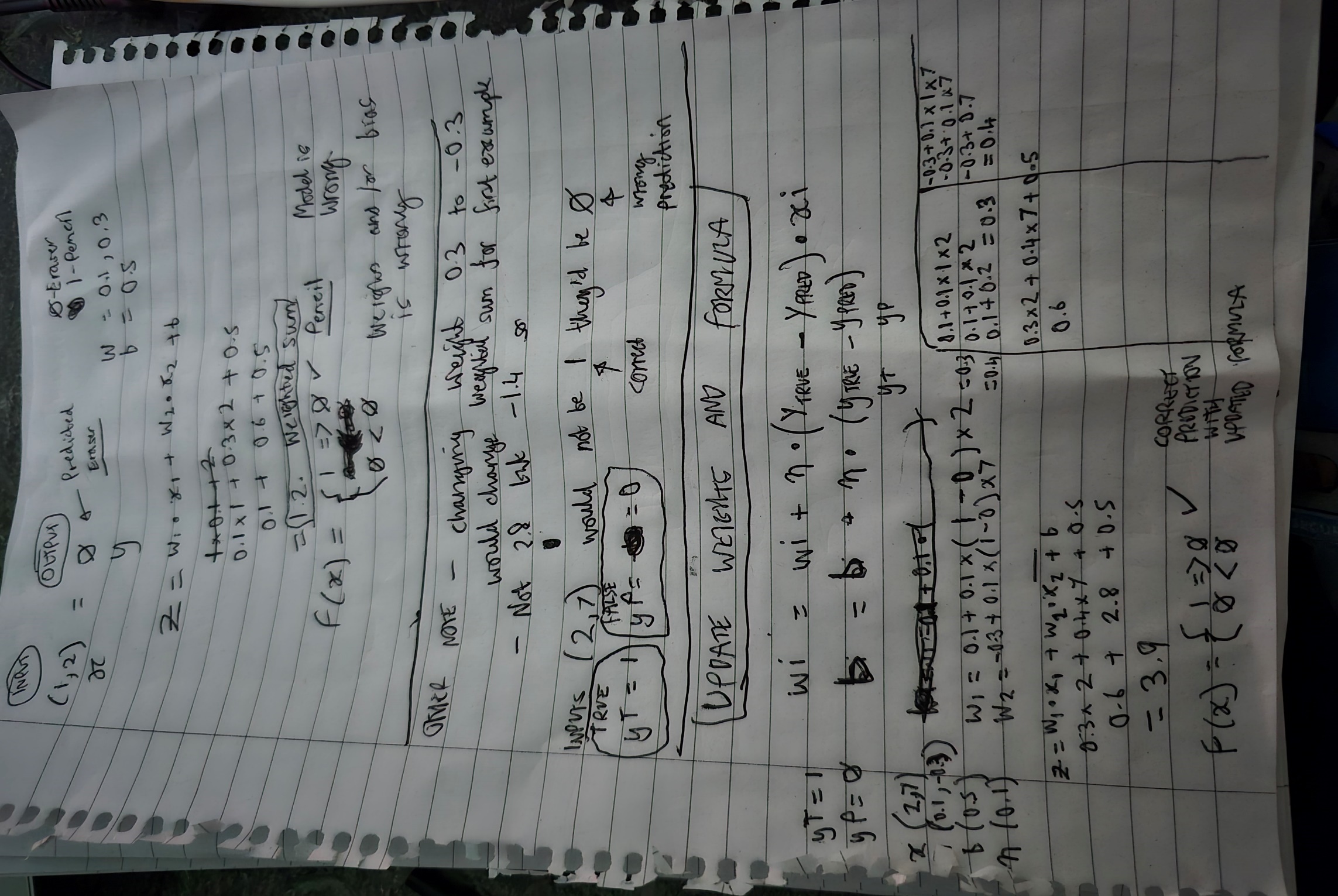
A piece of paper with writing on it

Description automatically generated



***Update - In the last section title UPDATE WEIGHTS AND FORMULA there is an error.***

***The bias value b is still using the original value of 0.5 and hasn’t had the new formula applied. So therefore the calculation as a whole is wrong.***

*Calculate weight and bias*

weight = wi + n \* (yT - yP) \* xi

bias = b + n \* (yT – yP)

*So…*

w1 = 0.1 + 0.1 \* (1 – 0) \* 2 = 0.3

w2 = -0.3 + 0.1 \* (1 – 0) \* 7 = 0.4

b = 0.5 + 0.1 \* (1 – 0) = 0.6

*Then apply new weights and bias to training the model*

Z = w1 \* x1 + w2 \* x2 + b

Z = 0.3 \* 2 + 0.4 \* 7 + 0.6

Z = 0.6 + 2.8 + 0.6

Z = 4

F(x) = 1 => 0 || 0 < 0

**F(4) = 1**