Homework-3

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Ourstion 1

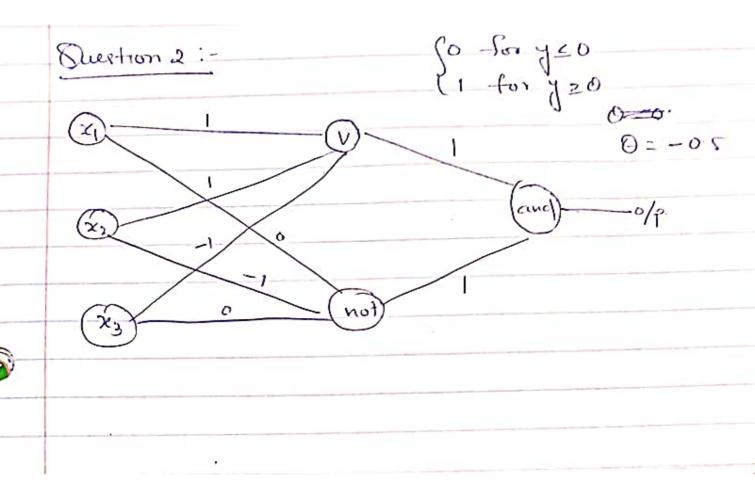
of examples are taken and in the case case of e, only 16 examples are taken and in the case data.

4. e/re3 is more likely as e3 takes 1000 examply and e1 only takes so examples hence error estimate: is more in method 1 than in method 3.



6. e. 7ez. u more likely as es takes only 16 examples & method 3 takes 1000 examples for training data.

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(2)	'X1	χ,	x	Y 3	XIVX;	V 23 22	7
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$$a_1(P) = -0_5$$

$$a_1(P) = -1$$

Delta update sule!

```
Sunt
       For e3 x1= a x2=0
            Z = U1x1+W2x2 = 0x2 + 1x0 = 0
            Sigmord(2) = 1 = -1
              error = 0 y - 0
                 error = -0.5
                 P = 025 x-0.5 = -0.125
             guen e= 0.1
            LI = LI + (0.1) (-0.125) x 2
              = H1 = 0.025
            = 0 - 0.025
W'_1 = 0.025
           Expression is ki = H, t (0.1) (-0.125) x2
            H_2' = H_2 + (0.1)(-0.125)(0)
   Expression Wi= Hz
```