Question 1

sheet 3

For m = 95 and n=10

* m is a factor of n2 (100) but it isn't a factor

B n1-4, n-6

C) for m=5 and n=10 m is afactor of n2 (100)
and it is also afactor of 10.

(d) m=2, n=4

Question 2:

@ Predicate & is an integer, domain Z

Domain: Z & XEZ | 6X EZ }

= {-6,-3,-2,-1,1,2,3,6}

(b) Predicate 6 is an integer, domain Z+.

Domain: NIXEN16X6Z3

= {1,2,3,6}

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@ Predicate - 1 < x2 < 4 odomain. R

Domain = RXER/1 < x2 < 4

$$= \begin{bmatrix} -2, -1 \end{bmatrix} \cup \begin{bmatrix} 1, 2 \end{bmatrix}$$

(d) predicate: 1 \le x^2 \le 4 schmain: 7

Domain: ZX EZ / 1 < x2 < 4

Question 3 !

a) a>o and b>o => ab>o

The Statement is true. Since a and b are Positive.

(b) a <0 and b <0 \Rightarrow ab <0

the Statement is false.

ex!

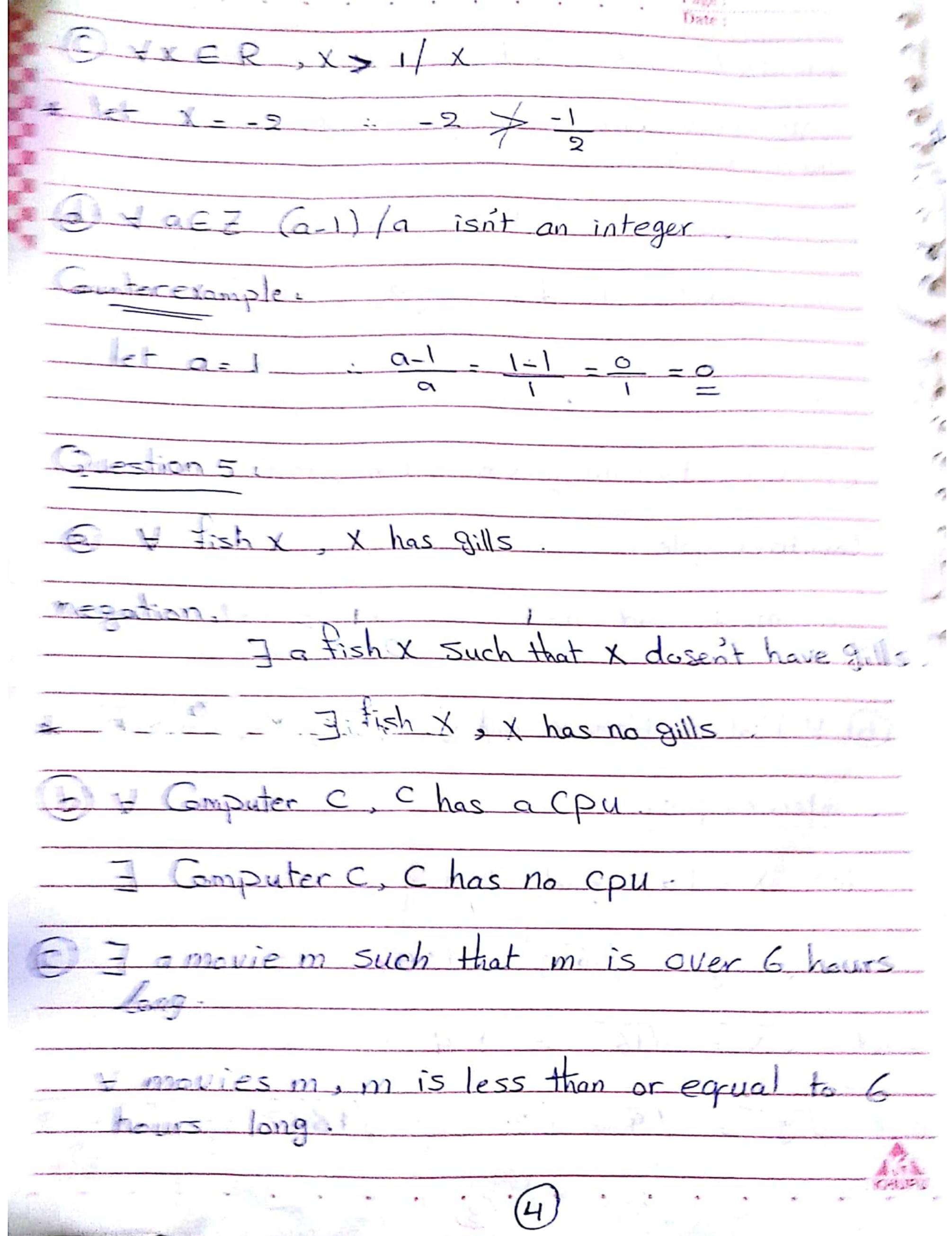
let a = -5 (<0) and b = -6 (<0) Then ab = (-5)(-6) = 30 > 030 isn't less than 0.

(c) ab=0 =0 or b=0

The Statement is true



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mice

All honest People Pay their taxes.

Darth Isn't honest. Darth does not Pay his taxes. this is invalid Quaralitara L. 30110 300 sty of 116 (d) Scanned by CamScanner