4. Irregularity

(a) let set A= [0"1"d": mch). So we have to proce A is not begular

Suppose for controduction that some DAA. M. hereagines A

det S= [0"1: n>13. Since S is infinite and M has firstly

many states, so there must exist states of M

M for states and some state of M

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(A+6

Consider expending 1°0° to both string, where CH<0, CH1Cb.

note that Da1CHO Where CH<0, must belongs to A, So that

Oc1CHOCEA, but ObjoH OCEA Size Atb. But they both

end up in the stare state of M, Cell it g. Since Oc1CHOCEA

State of must be an accept state but then M would incorrectly

Occupt ObjoH OCEA, which is an error.

Occupt ObjoH OCEA, which is an error.

Since M was arbitrong. In MAN recognizes A and A is her