Question: Is set of odd numbers with binary operations (+), ie 20,+> an abelian group?

=) solution: 0=51,8,5,7,9,11,13,15... }

1. clouser: if a, be then at bea'

Let a=3, b=5; the 3t5=8 not E0 so, condition not dails this requirement

2. Indentity element: o is even number 80, in eta ea is work out

3. Associative: rathet if ta, b, c ∈ a then. at(btc) = (atb) tc Ea.

Let, a = 3, b=5, C=-3

then,

3+(5-3) =(3+5)-3=5€ €0 so, there condition is satisfy.

9. Inverse flement: if a 0, a'd fo and (0+0(2)=eE0.Let 6=3; α=-3; α+0 3-3=0 € 0

this o pass this requirement.

5. communicative; if a ta, b ∈ 0 then

(a+b) = b+a ∈ 0

so Let a=5, b=7; st7=7+5=12 not ea

this condition not satisfy.

Herce given odd number set is not an abelian because it is not abelian abelian.