Quiz 6 MTH 450/550 Fall 2023

Friday, October 13, 2023

Find (a)= {an:nEZ} a = a + a = a $\frac{1}{d \cdot a} = \frac{1}{a^3} = \frac{$ So, <a> = {a} (you see that a is the idutity of <6,*)/

Not a generator!

 $b^{3} = (b * b) * b = c * b = d$ b= ((b+b)+b) +b= d+b=ad & 65 = · · · = a * b = h

50, $\langle b \rangle = \{a_1b_1c_1A\}_{i.e.}$ b is a generator!

Find (C) C2 = CAC=a $C^{4} = C + C = a$ $C = \{a_{1}c_{3}, NOT \ a \ generater$

Fird 2d> $d^2 = d \star d = c$ $d^{3} = \dots = c \star d = b d$ $d^{4} = \dots = b \star d = a a$ d======d. So <d>= {a,b,c,d}, ive, d is a generator 1