

# Abstract Algebra MAT02B3 / MAT3B20

Solutions to the Exam - November 2021

Marks: 39 ..... total time 3 hours

## Question 1

[0.5+2+ 1.5+2=6]

(a) Define what is meant by a group.

*A:* A group is a non-empty set  $G$  with a binary operation on  $G$  that satisfies:

(1) for all  $a, b, c \in G$ :  $a(bc) = (ab)c$  (associativity),

(2) there exists an element  $e \in G$  such that for all  $a \in G$ :  $ae = ea = a$ ,

(3) for all  $a \in G$  there exists an element  $b$  with  $ab = ba = e$  (inverse element).

(b) Let  $G$  be the set of all  $2 \times 2$ -matrices of the form

$$\begin{pmatrix} 0 & a \\ b & 0 \end{pmatrix},$$

where  $a$  and  $b$  are real numbers. Is  $G$  a group under matrix addition? Prove your answer.

*A:*  $G$  is a group. Clearly  $G \neq \emptyset$ . If  $A = \begin{pmatrix} 0 & a_1 \\ a_2 & 0 \end{pmatrix}$  and  $B = \begin{pmatrix} 0 & b_1 \\ b_2 & 0 \end{pmatrix}$  are matrices in  $G$ , then clearly

$$A + B = \begin{pmatrix} 0 & a_1 + b_1 \\ a_2 + b_2 & 0 \end{pmatrix}$$

is an element of  $G$ . Hence  $G$  is closed under matrix addition.

(1) Since matrix addition is associative for all  $2 \times 2$  matrices, it is also associative for all matrices in  $G$ .

(2) The matrix  $\begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$  is an identity element for matrix addition since

$$\begin{pmatrix} 0 & a_1 \\ a_2 & 0 \end{pmatrix} + \begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix} = \begin{pmatrix} 0 & a_1 \\ a_2 & 0 \end{pmatrix}, \quad \begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix} + \begin{pmatrix} 0 & a_1 \\ a_2 & 0 \end{pmatrix} = \begin{pmatrix} 0 & a_1 \\ a_2 & 0 \end{pmatrix}.$$

Moreover,  $\begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix} \in G$ .

(3) For a given  $A \in G$ ,  $A = \begin{pmatrix} 0 & a_1 \\ a_2 & 0 \end{pmatrix}$ , define  $-A = \begin{pmatrix} 0 & -a_1 \\ -a_2 & 0 \end{pmatrix}$ . Then

$$A + -A = \begin{pmatrix} 0 & a_1 \\ a_2 & 0 \end{pmatrix} + \begin{pmatrix} 0 & -a_1 \\ -a_2 & 0 \end{pmatrix} = \begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix},$$

$$-A + A = \begin{pmatrix} 0 & -a_1 \\ -a_2 & 0 \end{pmatrix} + \begin{pmatrix} 0 & a_1 \\ a_2 & 0 \end{pmatrix} = \begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}.$$

hence  $-A$  is the inverse of  $A$ . Moreover,  $-A$  is clearly in  $G$ .

Since  $G$  satisfies all group axioms,  $G$  is a group.

(c) Let the set  $G$  be defined by

$$G = \{2^k \mid k \in \mathbb{Z}\} \cup \{0\}.$$

Prove that  $G$  is not a group under the usual addition.

*A:* The set  $G$  is not closed under addition. For example  $2^1 + 2^0 = 3 \notin G$ . Hence  $G$  is not a group.

(d) State what is meant by the "socks-shoes property", and prove that every group has this property.

*A:* The socks-shoes property states that for elements  $a, b$  of a group  $G$ , the inverse of  $ab$  is  $b^{-1}a^{-1}$ .

# Abstract Algebra Exam Solutions

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