

## Algebraic/Matrix Theory Problems

Define an **algebra** to be a pair  $(A, \cdot)$  where  $A$  is a set and  $\cdot$  is a binary operation on  $A$  satisfying the following properties:

- |  |  |  |
|--|--|--|
| (A1) $(A, \cdot)$ is a semigroup   | (A2) $(A, \cdot)$ is a monoid  | (A3) $(A, \cdot)$ is a group   |
| (A4) $(A, \cdot)$ is a ring  | (A5) $(A, \cdot)$ is a division ring   | (A6) $(A, \cdot)$ is a field   |
| (A7) $(A, \cdot)$ is a $\mathbb{K}$ -algebra                                     | (A8) $(A, \cdot)$ is a $\mathbb{K}$ -algebra with identity                       | (A9) $(A, \cdot)$ is a $\mathbb{K}$ -algebra with identity and no zero divisors  |
| (A10) $(A, \cdot)$ is a $\mathbb{K}$ -algebra with identity and no zero divisors | (A11) $(A, \cdot)$ is a $\mathbb{K}$ -algebra with identity and no zero divisors | (A12) $(A, \cdot)$ is a $\mathbb{K}$ -algebra with identity and no zero divisors |
| (A13) $(A, \cdot)$ is a $\mathbb{K}$ -algebra with identity and no zero divisors | (A14) $(A, \cdot)$ is a $\mathbb{K}$ -algebra with identity and no zero divisors | (A15) $(A, \cdot)$ is a $\mathbb{K}$ -algebra with identity and no zero divisors |

Prove that if  $(A, \cdot)$  is an algebra, then  $(A, \cdot)$  is a monoid.

(A1) If  $(A, \cdot)$  is a semigroup, then  $(A, \cdot)$  is a monoid. (A2) If  $(A, \cdot)$  is a monoid, then  $(A, \cdot)$  is a group. (A3) If  $(A, \cdot)$  is a group, then  $(A, \cdot)$  is a division ring. (A4) If  $(A, \cdot)$  is a ring, then  $(A, \cdot)$  is a  $\mathbb{K}$ -algebra. (A5) If  $(A, \cdot)$  is a division ring, then  $(A, \cdot)$  is a  $\mathbb{K}$ -algebra. (A6) If  $(A, \cdot)$  is a field, then  $(A, \cdot)$  is a  $\mathbb{K}$ -algebra.

(A7) If  $(A, \cdot)$  is a  $\mathbb{K}$ -algebra, then  $(A, \cdot)$  is a  $\mathbb{K}$ -algebra with identity. (A8) If  $(A, \cdot)$  is a  $\mathbb{K}$ -algebra with identity, then  $(A, \cdot)$  is a  $\mathbb{K}$ -algebra with identity and no zero divisors. (A9) If  $(A, \cdot)$  is a  $\mathbb{K}$ -algebra with identity and no zero divisors, then  $(A, \cdot)$  is a  $\mathbb{K}$ -algebra with identity and no zero divisors. (A10) If  $(A, \cdot)$  is a  $\mathbb{K}$ -algebra with identity and no zero divisors, then  $(A, \cdot)$  is a  $\mathbb{K}$ -algebra with identity and no zero divisors. (A11) If  $(A, \cdot)$  is a  $\mathbb{K}$ -algebra with identity and no zero divisors, then  $(A, \cdot)$  is a  $\mathbb{K}$ -algebra with identity and no zero divisors. (A12) If  $(A, \cdot)$  is a  $\mathbb{K}$ -algebra with identity and no zero divisors, then  $(A, \cdot)$  is a  $\mathbb{K}$ -algebra with identity and no zero divisors.

- |   |   |
|---|---|
| (A13) If $(A, \cdot)$ is a $\mathbb{K}$ -algebra with identity and no zero divisors, then $(A, \cdot)$ is a $\mathbb{K}$ -algebra with identity and no zero divisors. | (A14) If $(A, \cdot)$ is a $\mathbb{K}$ -algebra with identity and no zero divisors, then $(A, \cdot)$ is a $\mathbb{K}$ -algebra with identity and no zero divisors. |
| (A15) If $(A, \cdot)$ is a $\mathbb{K}$ -algebra with identity and no zero divisors, then $(A, \cdot)$ is a $\mathbb{K}$ -algebra with identity and no zero divisors. | (A16) If $(A, \cdot)$ is a $\mathbb{K}$ -algebra with identity and no zero divisors, then $(A, \cdot)$ is a $\mathbb{K}$ -algebra with identity and no zero divisors. |

## 3 5 Practice Form G Answers

**Wenbin Ji**



### **3 5 Practice Form G Answers:**

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