

Selected exercises from Abstract Algebra by Dummit and Foote (3rd edition)

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Exercise 7.1

Exercise 16. Consider each of the following as a subgroup of $(\mathbb{Q}, +)$.

(a) the set of all rational numbers x such that $25x$ is an integer. (with as addition as in \mathbb{Q})

Proof. Suppose that set is a subgroup. Then we claim that it is a subgroup of $(\mathbb{Q}, +)$ because of the following conditions. Let

$$\frac{a}{b} = \frac{a}{b} + \frac{0}{1} = \frac{a+0}{b+1}.$$

It is obvious that $\frac{a}{b}$ is rational. Since $25 \cdot \frac{a}{b}$ is an integer, $\frac{a}{b}$ is in the set. Therefore,

$$\frac{a}{b} = \frac{a}{b} + \frac{0}{1} = \frac{a+0}{b+1}.$$

It is also true for the other subgroup. Hence, the set is closed under multiplication, proving that it is a subgroup. □

(b) the set of all rational numbers x such that $25x$ is an integer (where as there is no need to prove it)

Proof. Suppose that $25x$ is an integer. Then we claim that $\frac{a}{b}$ and $\frac{c}{d}$ are in the set. Then,

$$\frac{a}{b} = \frac{a}{b} + \frac{0}{1} = \frac{a+0}{b+1}.$$

Let also

(c) the set of all rational numbers x such that $25x$ is an integer

Proof. Suppose that $25x$ is an integer. Then we claim that $\frac{a}{b}$ and $\frac{c}{d}$ are in the set. Then, $\frac{a}{b} = \frac{a}{b} + \frac{0}{1} = \frac{a+0}{b+1}$ is an integer. □

(d) the set of all rational numbers x such that $25x$ is an integer

Proof. Suppose that $25x$ is an integer. Then we claim that $\frac{a}{b}$ and $\frac{c}{d}$ are in the set. Then, $\frac{a}{b} = \frac{a}{b} + \frac{0}{1} = \frac{a+0}{b+1}$ is an integer. □

(e) the set of all rational numbers x such that $25x$ is an integer (where as there is no need to prove it)

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