

Problem 1 (10 points)

Let $f: \mathbb{R} \rightarrow \mathbb{R}$ be a function satisfying

$$f(x+y) = f(x) + f(y) \quad \text{for all } x, y \in \mathbb{R}.$$

Prove that f is linear, i.e., $f(x) = cx$ for some constant $c \in \mathbb{R}$.

Solution: We first show that $f(0) = 0$. Setting $x = y = 0$ in the functional equation, we get

$$f(0+0) = f(0) + f(0) \implies f(0) = 2f(0) \implies f(0) = 0.$$

Next, we show that f is additive, i.e., $f(x+y) = f(x) + f(y)$ for all $x, y \in \mathbb{R}$. This is given by the functional equation.

Now, we show that f is homogeneous, i.e., $f(cx) = cf(x)$ for all $x \in \mathbb{R}$ and $c \in \mathbb{R}$. We first show this for integer values of c .

$$\text{For } c = 1, f(1x) = f(x) = 1f(x). \text{ For } c = 0, f(0x) = f(0) = 0 = 0f(x). \text{ For } c = -1, f(-x) = -f(x).$$

$$\text{For } c = n, f(nx) = f(x+x+\dots+x) = f(x) + f(x) + \dots + f(x) = nf(x).$$

$$\text{For } c = -n, f(-nx) = -f(nx) = -nf(x) = cf(x).$$

Thus, f is linear for integer values of c . Now, we show that f is linear for rational values of c .

$$\text{Let } c = \frac{p}{q} \text{ where } p, q \in \mathbb{Z}, q \neq 0. \text{ Then } f\left(\frac{p}{q}x\right) = f\left(\frac{1}{q}(px)\right) = \frac{1}{q}f(px) = \frac{1}{q}pf(x) = pf\left(\frac{1}{q}x\right) = pf\left(\frac{p}{q}x\right).$$

$$\text{Thus, } f\left(\frac{p}{q}x\right) = \frac{p}{q}f(x) = cf(x).$$

Therefore, f is linear for rational values of c . Finally, we show that f is linear for real values of c .

$$\text{Let } c \in \mathbb{R}. \text{ Then } f(cx) = f\left(\lim_{n \rightarrow \infty} \frac{p_n}{q_n}x\right) = \lim_{n \rightarrow \infty} f\left(\frac{p_n}{q_n}x\right) = \lim_{n \rightarrow \infty} \frac{p_n}{q_n}f(x) = cf(x).$$

$$\text{Thus, } f(cx) = cf(x) \text{ for all } x \in \mathbb{R} \text{ and } c \in \mathbb{R}.$$

Therefore, f is linear, i.e., $f(x) = cx$ for some constant $c \in \mathbb{R}$.

Problem 2 (10 points)

Let $f: \mathbb{R} \rightarrow \mathbb{R}$ be a function satisfying

$$f(x+y) = f(x)f(y) \quad \text{for all } x, y \in \mathbb{R}.$$

Prove that f is either the zero function or an exponential function, i.e., $f(x) = e^{cx}$ for some constant $c \in \mathbb{R}$.

Solution: We first show that $f(0) = 1$. Setting $x = y = 0$ in the functional equation, we get

$$f(0+0) = f(0)f(0) \implies f(0) = f(0)^2 \implies f(0) = 0 \text{ or } f(0) = 1.$$

If $f(0) = 0$, then $f(x) = 0$ for all $x \in \mathbb{R}$. This is the zero function.

If $f(0) = 1$, then f is not the zero function. We show that f is multiplicative, i.e., $f(xy) = f(x)f(y)$ for all $x, y \in \mathbb{R}$. This is given by the functional equation.

Now, we show that f is additive, i.e., $f(x+y) = f(x) + f(y)$ for all $x, y \in \mathbb{R}$. We first show this for integer values of x and y .

$$\text{For } x = y = 1, f(1+1) = f(1)f(1) = 1 \cdot 1 = 1 = f(1) + f(1). \text{ For } x = y = -1, f(-1-1) = f(-1)f(-1) = 1 \cdot 1 = 1 = f(-1) + f(-1).$$

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Therefore, f is linear, i.e., $f(x) = cx$ for some constant $c \in \mathbb{R}$.

Problem 4 (10 points)

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$$\text{For } x = -1, y = 1, f(-1+1) = f(-1)f(1) = 1 \cdot 1 = 1 = f(-1) + f(1).$$

$$\text{Thus, } f(x+y) = f(x) + f(y) \text{ for all } x, y \in \mathbb{Z}.$$

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Albert A Gayle



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