

京大理系 2004後期 (3)

$$f\left(\frac{1}{3}x + \frac{2}{3}x\right) = f\left(\frac{1}{3}x\right) + f\left(\frac{2}{3}x\right) \quad \text{--- (1)}$$

$$f\left(\frac{1}{3}x + \frac{1}{3}x\right) = f\left(\frac{1}{3}x\right) + f\left(\frac{1}{3}x\right) \quad \text{--- (2)}$$

$$\text{(1) (2) より } f(x) = 3f\left(\frac{1}{3}x\right), \quad f\left(\frac{1}{3}x\right) = \frac{1}{3}f(x)$$