

تکلیف 11

مراد سامع

(1) الف) بی نشا ابر خود

(ب) $f \circ f^{-1}(n) = n \Rightarrow n - \frac{m}{n} = n \Rightarrow n = \frac{m}{n}$ (مخزن و نژاد)

(2) از آنجایی که مماتب افقی و قائم یکسان است $f(n) = f^{-1}(n)$
 $\Rightarrow f \circ f^{-1}(n) = n \Rightarrow f \circ f^{-1}(2\sqrt{6}) = 0 - \sqrt{6}$

(3) $f^{-1}(n) = \frac{-(m \circ n) \circ m}{n - m} = \frac{m \circ n \circ m}{n \circ (m \circ m)}$ (3)

$\Rightarrow -(m \circ n) \circ m - (m \circ m) \circ n = m \circ n \circ m - m \circ (m \circ m)$

$\Rightarrow (m \circ m) \circ n - (m \circ m) \circ n = 0$

$\Rightarrow \frac{1}{a} \circ \frac{1}{b} = \frac{a \circ b}{a \cdot b} = 1$ (1)

$(k \text{ mod } 1 - (n \text{ mod } 1) = 0 \Rightarrow \frac{-0}{1} = \frac{-5}{-m \circ 1}$ (4)

$\Rightarrow f^{-1}(n) = \frac{5-n}{m} \quad n \in (-\infty, \frac{1}{5}]$

$g = (f \circ n) \circ \frac{1}{p} \Rightarrow \frac{g \circ 1}{p} = f^{-1}(n) \Rightarrow$ (5)

$\frac{1}{p} \circ \frac{1}{q} \circ f^{-1}(n) = n \Rightarrow g \circ f^{-1}(n) = \frac{1}{p} \circ f^{-1}(\frac{g \circ 1}{p})$

$\Rightarrow a \circ \frac{1}{p} \circ b \circ \frac{1}{q} \circ c = p \circ d \circ 0 \Rightarrow \frac{a \circ c \circ d}{p \circ b} = \frac{1}{p}$

