

Let y be an arbitrary element of A . Then,

$$\begin{aligned} f(x) = y &\Rightarrow \frac{4x}{3x+4} = y \\ &\Rightarrow 3xy + 4y = 4x \Rightarrow 4x - 3xy = 4y \\ &\Rightarrow x(4 - 3y) = 4y \Rightarrow x = \frac{4y}{(4 - 3y)}. \end{aligned}$$

Thus, for each $y \in A$, there exists an $x \in A$ such that

$$\begin{aligned} f(x) &= f\left(\frac{4y}{4-3y}\right) = \frac{4 \cdot \left(\frac{4y}{4-3y}\right)}{3 \cdot \left(\frac{4y}{4-3y}\right) + 4} \\ &= \frac{16y}{12y + 16 - 12y} = \frac{16y}{16} = y. \end{aligned}$$

$\therefore f$ is onto.

Now, $f(x) = y \Rightarrow x = f^{-1}(y)$.

$$\therefore f^{-1}(y) = \frac{4y}{4-3y}.$$

$$8. \quad y = (3x+1)^2 - 6 \Rightarrow x = \frac{\sqrt{y+6}-1}{3} \Rightarrow f^{-1}(y) = \frac{\sqrt{y+6}-1}{3}.$$

$$\begin{aligned} 9. \quad f(x_1) &= f(x_2) \Rightarrow 4x_1^2 + 12x_1 + 15 = 4x_2^2 + 12x_2 + 15 \\ &\Rightarrow 4(x_1^2 - x_2^2) + 12(x_1 - x_2) = 0 \Rightarrow (x_1^2 - x_2^2) + 3(x_1 - x_2) = 0 \\ &\Rightarrow (x_1 - x_2)(x_1 + x_2 + 3) = 0 \Rightarrow x_1 - x_2 = 0 \Rightarrow x_1 = x_2. \end{aligned}$$

Since $f : N \rightarrow \text{range}(f)$, so f is onto.

$$\text{Now } 4x^2 + 12x + 15 = y \Rightarrow (2x+3)^2 + 6 = y$$

$$\Rightarrow (2x+3) = \sqrt{y-6} \Rightarrow x = \frac{\sqrt{y-6}-3}{2}.$$

$$\therefore f^{-1}(y) = \frac{\sqrt{y-6}-3}{2}.$$

OBJECTIVE QUESTIONS

Mark (✓) against the correct answer in each of the following:

1. $f : N \rightarrow N : f(x) = 2x$ is

(a) one-one and onto

(c) many-one and onto

(b) one-one and into

(d) many-one and into

2. $f : N \rightarrow N : f(x) = x^2 + x + 1$ is

(a) one-one and onto

(c) many-one and onto

(b) one-one and into

(d) many-one and into

Rs Agarwal Maths 12

J Elliott



Rs Agarwal Maths 12:

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