Question 1

21

Show that the function  $f:R-\{3\} o R-\{1\}$  given by

$$f(x) = \frac{x-2}{x-3}$$
 is a bijection.

Question 2

If f:R o R be the function defined by  $f(x)=4x^3+7$ , show

that f is a bijection.

Question 3

Show that the function  $f: R - \{3\} \to R - \{2\}$  given by  $f(x) = \frac{x-2}{x-3}$  is a bijection.

Question 4

Let  $A = R - \{3\}$ ,  $B = R - \{1\}$ . Let  $f : A \to B$  defined by  $f(x) = \frac{x-2}{x-3}$ . Show that f is bijective.

Question 5

Show that the function  $f: R - \{3\} \to R - \{2\}$  given by  $f(x) = \frac{x-2}{x-3}$  is a bijection.

Question 6

Show that the function  $f:R-\{3\} o R-\{1\}$  given by  $f(x)=rac{x-2}{x-3}$ 

is a bijection.