Question 1

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

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

Question 2

If $f : R \to R$ 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 $f : R - \{3\} \to R - \{1\}$ given by $f(x) = \dfrac{x - 2}{x - 3}$

is a bijection.

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