(... For
$$x = 5$$
, $f(x) = \frac{1}{x-5} = \frac{1}{5-5} = \frac{1}{0} \to \infty$

 \therefore 5 \notin domain of f)

Let c be any real number such that $c \neq 5$

$$\lim_{x \to c} f(x) = \lim_{x \to c} \frac{1}{x - 5}$$
 [By (i)]

Putting
$$x = c$$
, $= \frac{1}{c - 5}$

Putting
$$x = c$$
 in (i), $f(c) = \frac{1}{c-5}$

$$\therefore \lim_{x \to c} f(x) = f(c) \left(= \frac{1}{c - 5} \right)$$

.. f(x) is continuous at every point c in the domain of f. Hence f is continuous.

Or

Here
$$f(x) = \frac{1}{x-5}$$
, $x \neq 5$ is a rational function

$$=\frac{\text{Polynomial 1 of degree 0}}{\text{Polynomial }(x-5) \text{ of degree 1}}$$
 and its denominator

i.e., $(x-5) \neq 0$ ('.' $x \neq 5$). We know that every rational function is continuous (By Note below Solution of Q. No. 3(a)). Therefore f is continuous (in its domain $R - \{5\}$).

(c)
$$f(x) = \frac{x^2 - 25}{x + 5}, x \neq -5$$

Here $f(x) = \frac{x^2 - 25}{x + 5}$, $x \neq -5$ is a rational function and denominator $x + 5 \neq 0$ (*.* $x \neq -5$).

(In fact
$$f(x) = \frac{x^2 - 25}{x + 5}$$
, $(x \ne -5) = \frac{(x + 5)(x - 5)}{x + 5}$

= x - 5, ($x \neq -5$) is a polynomial function). We know that every rational function is continuous. Therefore f is continuous (in its domain $R - \{-5\}$).

Or

Proceed as in Method I of Q. No. 3(b).

(d) Given: f(x) = |x - 5|

Domain of f(x) is R (:. f(x) is real and finite for all real x in $(-\infty, \infty)$)

Here f(x) = |x - 5| is a modulus function.

We know that every modulus function is continuous.

(By Note below Solution of Q. No. 3(a)). Therefore f is continuous in its domain R.

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S Nieto

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Nonlinear Integral Equations Philip M. Anselone, 1964

Publication ... of the Mathematics Research Center, United States Army, the University of Wisconsin ,1964

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