$$f(x) = |x - 3|$$
$$= \begin{cases} -(x - 3), & \text{if } x < 3 \\ x - 3, & \text{if } x \geq 3 \end{cases}$$
$$f(3) = 3 - 3 = 0$$

LHL $= \lim_{x \to 3^-} f(x)$

$= \lim_{h \to 0} f(3 - h)$

$= \lim_{h \to 0} 3 - (3 - h)$

$= \lim_{h \to 0} 0$

RHL $= \lim_{x \to 3^+} f(x)$

$= \lim_{h \to 0} f(3 + h)$

$= \lim_{h \to 0} 3 + h - 3$

$= 0$

LHL $= f(3) =$ RHL

∴ $f(x)$ is continuous at $x = 3$

(LHD at $x = 3$) $= \lim_{x \to 3^-} \dfrac{f(x) - f(3)}{x - 3}$

$= \lim_{h \to 0} \dfrac{f(3 - h) - f(3)}{3 - h - 3}$

$= \lim_{h \to 0} \dfrac{3 - (3 - h) - 0}{-h}$

$= \lim_{h \to 0} \dfrac{h}{-h}$

$= -1$

(RHD at $x = 3$) $= \lim_{x \to 3^+} \dfrac{f(x) - f(3)}{x - 3}$

$= \lim_{h \to 0} \dfrac{f(3 + h) - f(3)}{3 + h - 3}$

$= \lim_{h \to 0} \dfrac{3 + h - 3 - 0}{h}$

$= \lim_{h \to 0} \dfrac{h}{h}$

$= 1$

(LHD at $x = 3$) $\neq$ (RHD at $x = 3$)

∴ $f(x)$ is continuous but not differentiable at $x = 3$.

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