

الف) $\lim_{x \rightarrow 2^+} (2x - 4) = \omega$ ب) $\lim_{x \rightarrow 2^-} (2x - 4) = \omega$ ①

الف) $\lim_{x \rightarrow 2^+} f(x) = L$ و $f(2) = L$ و ω ب) $\lim_{x \rightarrow 2^-} f(x) = L$ و $f(2) = L$ و ω ②

الف) $\lim_{x \rightarrow 2^+} [f(x)] = [\omega]$ و ω ب) $\lim_{x \rightarrow 2^-} [f(x)] = [\omega]$ و ω ③

الف) $[\lim_{x \rightarrow 2^+} f(x)] = \omega$ ب) $[\lim_{x \rightarrow 2^-} f(x)] = \omega$ ④

الف) $\lim_{x \rightarrow 2} \frac{9x - 18}{x - 2}$ (مركبة) $\rightarrow \mu^+ : \frac{9}{0^+} = +\infty$ ⑤
 $\mu^- : \frac{9}{0^-} = -\infty$

ب) $\lim_{x \rightarrow 2} \frac{9x - 18}{(x - 2)^2} \rightarrow \mu^+ : \frac{9}{0^+} = +\infty$
 $\mu^- : \frac{9}{0^+} = +\infty$

الف) $\lim_{x \rightarrow 2} \frac{9x - 18}{\sqrt{x - 2}} \rightarrow \mu^+ : \frac{9}{\sqrt{0^+}} = \infty$ ⑥
 $\mu^- : \frac{9}{\sqrt{0^-}}$ (غير معرف) تعريفه

Arman

ب) $\lim_{x \rightarrow 3} \frac{x^2 - 9}{\sqrt{x^2 - 5x + 6}}$ $\rightarrow x^+ : \frac{9}{\sqrt{0^+}} \rightarrow \infty$ $\frac{+}{+} \mid \frac{-}{-} \mid \frac{+}{+}$ (9)

$\rightarrow x^- : \frac{9}{\sqrt{0^-}}$ تعزيب

ج) $\lim_{x \rightarrow 3} \frac{x^2 - 9}{\sqrt{x^2 - 4x + 3}}$ $\rightarrow x^+ : \frac{9}{\sqrt{0^-}} \times \frac{x}{x} \mid \frac{x}{x}$ (10)

$\rightarrow x^- : \frac{9}{\sqrt{0^+}} \rightarrow \infty$

د) $\lim_{x \rightarrow 2} \frac{x^2 - 4}{[x - 2]}$ $\rightarrow x^+ : \frac{9}{[0^+]} \rightarrow \frac{9}{+}$ تعزيب

$\rightarrow x^- : \frac{9}{[0^-]} \rightarrow \frac{9}{-} \rightarrow -9$

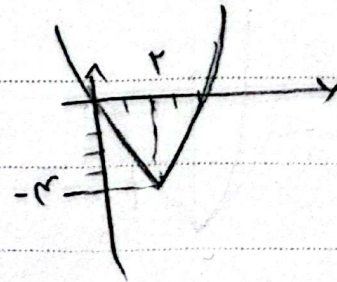
هـ) $\lim_{x \rightarrow 2} [x^2] + [-x^2]$ $\rightarrow x^+ : 9 + (-4) \rightarrow 5$ (11)

$\rightarrow x^- : 4 + (-4) \rightarrow 0$

و) $\lim_{x \rightarrow -2} [-x^2] + [x^2]$ $\rightarrow x^+ : 4 - 4 \rightarrow 0$

$\rightarrow x^- : 4 - 4 \rightarrow 0$

ز) $\lim_{x \rightarrow 2} [2^x - x^2] \rightarrow -3$



(12)

