



$\lim_{x \rightarrow 2} \frac{f(x)-2}{\sqrt{x^2}-f(x)+2}$ $\begin{cases} \mu^+ \frac{1}{0^+} = +\infty \\ \mu^- \frac{1}{0^-} = -\infty \end{cases}$ <p style="text-align: center;">صفر</p> $\begin{array}{c} 1^+ \\ +   -   + \\ \uparrow \quad \downarrow \quad \uparrow \end{array}$	$\lim_{x \rightarrow 2} \frac{f(x)-2}{\sqrt{x^2}-2}$ $\begin{cases} \mu^+ \frac{1^+}{0^+} = +\infty \\ \mu^- \frac{1^-}{0^-} = -\infty \end{cases}$ <p style="text-align: center;">صفر</p>	الف صفر ٦
$\lim_{x \rightarrow 2} \frac{f(x)-2}{[x-2]}$ $\begin{cases} \mu^+ \frac{1}{0^+} = \frac{1}{0} = \infty \\ \mu^- \frac{1}{0^-} = \frac{1}{-1} = -1 \end{cases}$ <p style="text-align: center;">صفر</p>	$\lim_{x \rightarrow 2} \frac{f(x)-2}{x-\sqrt{x+1}}$ $\begin{cases} \mu^+ \frac{1}{0^-} = -\infty \\ \mu^- \frac{1}{0^+} = +\infty \end{cases}$ <p style="text-align: center;">صفر</p> $\begin{array}{c} \mu^- \quad \mu^+ \\ +   -   + \\ \uparrow \quad \downarrow \quad \uparrow \end{array}$	الف صفر ٧
$\lim_{x \rightarrow -9} [-f(x)] + [f(x)]$ $\begin{cases} -9^+ \quad \mu^+ \quad 11 \\ -9^- \quad \mu^- \quad 11 \end{cases}$ <p style="text-align: center;">صفر</p>	$\lim_{x \rightarrow 2} [f(x)] + [-f(x)]$ $\begin{cases} \mu^+ \quad 1-1=0 \\ \mu^- \quad 1-1=0 \end{cases}$ <p style="text-align: center;">صفر</p>	الف صفر ٨
$\lim_{x \rightarrow 2} [f(x) \cdot x^2]$ $\begin{cases} \mu^+ [4 \cdot (2,1)] - (2,1)^2 = [1^+] = 1 \\ \mu^- [4 \cdot (2,9)] - (2,9)^2 = [1^+] = 1 \end{cases}$ <p style="text-align: center;">صفر</p>	$\lim_{x \rightarrow 2} [x^2 \cdot f(x)] =$ $\begin{cases} \mu^+ [(2,1)^2 - f(2,1)] = -1 \\ \mu^- [(2,9)^2 - f(2,9)] = -1 \end{cases}$ <p style="text-align: center;">صفر</p>	الف صفر ٩
$\lim_{n \rightarrow 1} \frac{n - [x]}{x^2 - 1}$ $\begin{cases} 1^+ \frac{1^+}{(1^+)(1^+)} = \frac{1}{1^+} = \frac{1}{2} \\ 1^- \frac{1^-}{(1^-)(1^-)} = \frac{1}{0^+} = \infty \end{cases}$	$\lim_{n \rightarrow 2} \frac{(n-1)}{n^2 - n + 2}$ $\frac{0}{2}$ $\begin{cases} \mu^+ \frac{(n^+)}{(n^+)(n-1)} = \frac{1}{n-1} = \frac{1}{1} = [1] \\ \mu^- \frac{-(n^+)}{(n^+)(n-1)} = \frac{-1}{n-1} = \frac{-1}{1} = [-1] \end{cases}$	الف صفر ١٠