

<p>الف) ∞</p> <p>ب) ∞</p>	<p>فیلد اینک</p> <p>الف) $\lim_{x \rightarrow r^+} (fx - r) = f(r) - r = d$</p> <p>ب) $\lim_{x \rightarrow r^-} (fx - r) = f(r) - r = d$</p>	<p>۱</p>
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<p>الف) ∞</p>	<p>۱) ب</p> <p>الف) $x > 2 \rightarrow [x] \geq 2 \rightarrow \lim_{x \rightarrow 2^+} (f[x] - r) = f(2) - r = d$</p> <p>ب) $x < 2 \rightarrow [x] < 1 \rightarrow \lim_{x \rightarrow 2^-} (f[x] - r) = f(1) - r = 1$</p>	<p>۲</p>
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<p>الف) ∞</p> <p>ب) $\lim (f(1.999\dots) - r) = f$</p>	<p>$(f(r) - r) = d$</p>	<p>۳</p>
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<p>الف و ب) $= 0$</p>		<p>۴</p>
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<p>الف)</p> <p>ب) ..</p>	<p>$\lim_{x \rightarrow r} \frac{fx - r}{x - r}$</p> <p>$\lim_{x \rightarrow r^+} = +\infty$</p> <p>$\lim_{x \rightarrow r^-} = -\infty$</p> <p>$\lim_{x \rightarrow r} \frac{fx - r}{(x - r)^n} = +\infty$</p>	<p>۵</p>
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الف $\nearrow +\infty$
 $\searrow -\infty$

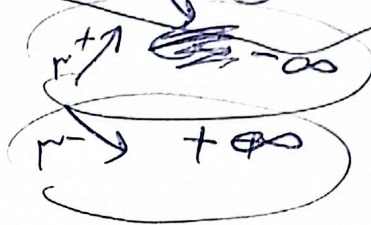
ب) $\lim_{x \rightarrow r} \frac{f(x) - f(r)}{x - r}$

~~$f(r) > 0$~~

\Rightarrow $\nearrow +\infty$
 $\searrow -\infty$

الف)

$f'(r) < 0 \Rightarrow$



ب) $\nearrow +\infty$
 $\searrow -\infty$

الف) $\left. \begin{array}{l} \nearrow 9 - 4 = 2 \\ \searrow 1 - 4 = -3 \end{array} \right\} \lim_{x \rightarrow 2} \frac{[rx] + [-rx]}{x - 2}$

ب) $\left. \begin{array}{l} \nearrow 2^3 - 1^3 = 7 \\ \searrow 2^3 - 1^3 = 7 \end{array} \right\} \lim_{x \rightarrow 2} \frac{[-rx] + [rx]}{x - 2} = 1$

الف) $\left(\begin{array}{c} -\infty \\ \text{min} \\ \infty \end{array} \right)$

ب) $\left(\begin{array}{c} \infty \\ \text{max} \\ \infty \end{array} \right)$

الف) $\nearrow \frac{1}{(x-1)} = 1$
 $\searrow = -1$

ب) ~~$\frac{x+1}{x-1} = \frac{1}{x+1}$~~
 $\nearrow \frac{x}{x-1} = -\infty$