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1) $\lim_{x \rightarrow 1^+} f(x-1) = 1-1 = 0$

2) $\lim_{x \rightarrow 1^-} f(x-1) = 1-1 = 0$

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3) $\lim_{x \rightarrow 1^+} f[x] - 1 = f(1) - 1 = 0$

4) $\lim_{x \rightarrow 1^-} f[x] - 1 = f(1) - 1 = 0$

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5) $\lim_{x \rightarrow 1^+} [f(x-1)] = [1-1] = 0$

6) $\lim_{x \rightarrow 1^-} [f(x-1)] = [1-1] = [0]$

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7) $[\lim_{x \rightarrow 1^+} f(x-1)] = [1-1] = 0$

8) $[\lim_{x \rightarrow 1^-} f(x-1)] = [1-1] = 0$

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9) $\lim_{x \rightarrow 1^+} \frac{f(x-1)}{x-1} = \frac{0}{0} = \frac{1}{0^+} = +\infty$

10) $\lim_{x \rightarrow 1^-} \frac{f(x-1)}{(x-1)^2} = \frac{0}{0} = \frac{1}{0^+} = +\infty$

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11) $\lim_{x \rightarrow 1^+} \frac{f(x-1)}{\sqrt{x-1}} = \frac{0}{0} = \frac{1}{0^+} = +\infty$

12) $\lim_{x \rightarrow 1^-} \frac{f(x-1)}{\sqrt{(x-1)(x-1)}} = \frac{0}{0} = \frac{1}{0^+} = +\infty$

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13) $\lim_{x \rightarrow 1^+} \frac{f(x-1)}{(x-1)(x-1)} = \frac{0}{0} = \frac{1}{0^+} = +\infty$

14) $\lim_{x \rightarrow 1^-} \frac{f(x-1)}{[x-1]} = \frac{0}{0} = \frac{1}{-1} = -1$

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15) $\lim_{x \rightarrow 1^+} [f(x)] + [-1x] = 1-1 = 0$

16) $\lim_{x \rightarrow -4} [-f(x)] + [x^2] = -4^2 + 16 = 0$

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17) $\lim_{x \rightarrow 1^+} [x^2 - f(x)] = [1-1] = 0$

18) $\lim_{x \rightarrow 1^-} [4x - x^2] = [4-1] = 3$

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19) $\lim_{x \rightarrow 1} \frac{|x-1|}{(x-1)(x-1)} = \frac{0}{0}$

20) $\lim_{x \rightarrow 1} \frac{x - [x]}{x^2 - 1} = \frac{0}{0}$

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21) $\frac{x-1}{(x-1)(x-1)} = \frac{1}{x-1} = 1$

22) $\frac{x-1}{(x-1)(x+1)} = \frac{1}{x+1} = \frac{1}{2}$

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