$$\lim_{x \to 2^{-}} \frac{xe^{x}}{x-2} = \frac{2e^{2}}{0^{-}} = -\infty$$

$$\lim_{x \to 2^{-}} \frac{xe^{x}}{x-2} = \frac{2e^{2}}{0^{+}} = +\infty$$

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$$\lim_{x \to 2^{-}} \frac{xe^{x}}{x-2} = +\infty$$

$$\lim_{x \to 1^{-}} \frac{f(x)}{x} = \lim_{x \to 1^{-}} \frac{xe^{x}}{x(x-2)} = +\infty$$

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