



$$1) \lim_{x \rightarrow 5} \frac{L(x^2 - 24)}{L(6x - 29)} = \lim_{x \rightarrow 5} \frac{x^2 - 24 - 1}{6x - 29 - 1} =$$

$$2) \lim_{x \rightarrow -2} \frac{3 - 1}{2 \frac{x^2 - 4}{x+2} - 1} = \lim_{x \rightarrow -2} \frac{(x+2) \cdot L3}{(x^2 - 4) \cdot L2} =$$

$$3) \lim_{x \rightarrow 0} \frac{5 \frac{x^2 - x}{x^2 + x} - 1}{6 \frac{x^2 + x}{x^2 + x} - 1} = \lim_{x \rightarrow 0} \frac{(x^2 - x) \cdot L5}{(x^2 + x) \cdot L6}$$

$$4) \lim_{x \rightarrow 0^+} \frac{5 \frac{x^2 - x}{x^2 - x^3} - 1}{6 \frac{x^2 - x^3}{x^2 - x^3} - 1} = \lim_{x \rightarrow 0^+} \frac{(x^2 - x) \cdot L5}{(x^2 - x^3) \cdot L6}$$

$$5) \lim_{x \rightarrow 0^-} \frac{e^{x^2} - 1}{e^{x^3} - 1} = \lim_{x \rightarrow 0^-} \frac{x^2}{x^3}$$

$$6) \lim_{x \rightarrow +\infty} \frac{e^{\frac{1}{x}} - 1}{e^{\frac{1}{x^2}} - 1} = \lim_{x \rightarrow +\infty} \frac{\frac{1}{x}}{\frac{1}{x^2}}$$

$$7) \lim_{x \rightarrow 4} \frac{L(2x - x^2 + 9)}{2x^2 - 16 - 1} = \lim_{x \rightarrow 4} \frac{2x - x^2 + 9 - 1}{(x^2 - 16) \cdot L2}$$

$$8) \lim_{x \rightarrow 3^+} \frac{4x}{L(x-3)} =$$

$$9) \lim_{x \rightarrow 2^+} \frac{4x}{L(x-3)} =$$