$$\frac{x^{100}-1}{x^{1000}-1} \rightsquigarrow \frac{1}{10}$$

$$\frac{{}^x\mathfrak{e}-1-x}{x^2} \rightsquigarrow \frac{1}{2}$$

$$\frac{{}^x\!\not{\mathfrak{e}}}{x-1} \rightsquigarrow -1: \quad \frac{x^3-1}{{}^x\!\not{\mathfrak{e}}} \rightsquigarrow 3: \quad \frac{{}^x\!\not{\mathfrak{e}}}{x^2-1} \rightsquigarrow \frac{1}{2}$$

$$\frac{{}^x\!\not{\mathfrak{e}}}{{}^x\mathfrak{g}} \rightsquigarrow 0$$

$$\frac{x^2}{{}^{x^2}\mathfrak{e}} \rightsquigarrow 0$$

$$\frac{x-{}^x\mathfrak{s}}{x-{}^x\mathfrak{t}} \rightsquigarrow -\frac{1}{2}$$

$$\frac{x^2}{{}^x\!\not{\mathfrak{e}}} \rightsquigarrow +\infty: \quad \frac{{}^x\!\not{\mathfrak{e}}^3}{x} \rightsquigarrow 0: \quad \frac{{}^x\!\not{\mathfrak{e}}}{\sqrt{x}} \rightsquigarrow 0$$

$$\frac{{}^x\mathfrak{e}}{{}^x\!\not{\mathfrak{e}}} \rightsquigarrow +\infty$$

$$\frac{1-{}^x\mathfrak{s}}{{}^x\mathfrak{e}} \rightsquigarrow 0$$

$$\frac{{}^x\mathfrak{s}-x}{x^3} \rightsquigarrow -\frac{1}{6}$$

$$\frac{{}^x\mathfrak{t}-x}{x^2} \rightsquigarrow 0$$

$$\frac{{}^x\mathfrak{t}-{}^x\mathfrak{s}}{x-{}^x\mathfrak{s}} \rightsquigarrow$$

$$\frac{1-{}^{4x}\mathfrak{e}}{1+3x\,\not{\mathfrak{e}}} \rightsquigarrow -\frac{3}{4}$$

$$\frac{{}^{x}\mathfrak{c}\!\not{\mathfrak{e}}}{x^{x}\mathfrak{s}} \rightsquigarrow -\frac{1}{2}$$

$$\frac{{}^{x}\mathfrak{c}\!\not{\mathfrak{e}}}{x^2} \rightsquigarrow -\frac{1}{2}$$

$$\frac{{}^x\mathfrak{e}}{x^{x}\!\not{\mathfrak{e}}} \rightsquigarrow +\infty$$

$$\frac{x^2\epsilon - 1}{x_\varsigma - 1} \rightsquigarrow -2$$

$$\frac{2x_\varsigma\diagup}{x_\varsigma\diagup} \rightsquigarrow 1$$

$$\frac{x^2+1\diagup}{3x^2-1\diagup} \rightsquigarrow 1$$

$$\frac{x + \,^{2x}\varsigma}{x + \,^{3x}\varsigma} \rightsquigarrow \frac{3}{4}: \quad \frac{x^2 + \,^{2x}\varsigma}{x^3 + \,^{3x}\varsigma} \rightsquigarrow \frac{2}{3}$$

$$\frac{^{3x}\epsilon - 1}{1 + 2x\diagup} \rightsquigarrow \frac{3}{2}$$

$$\frac{^{3x}t}{^{x}\epsilon - \,^{-x}\epsilon} \rightsquigarrow \frac{3}{2}$$

$$\frac{^{x}\epsilon - \,^{-3x}\epsilon}{1 - \,^{2x}\varsigma} \rightsquigarrow +\infty$$

$$\frac{^{x}\varsigma}{x + \pi/2\,_\varsigma} \rightsquigarrow 1$$

$$\frac{^{-2x}\epsilon - \,^{2x}\epsilon}{x} \rightsquigarrow -4$$

$$\frac{^{x}\diagup}{\sqrt{x^2-1}} \rightsquigarrow 0$$

$$\frac{x^{2x}t}{^{x}\varsigma\diagup} \rightsquigarrow 0$$

$$\frac{^{x}\varsigma/x\diagup}{x} \rightsquigarrow 0$$

$$\boxed{\frac{0}{0} \text{ for } x \rightsquigarrow 0}$$

$$\frac{1+2x\diagup}{x} \quad \frac{x^2}{^{3x}\varsigma - 1}: \quad \frac{x - \,^{x}\varsigma}{x^2}: \quad \frac{^{7x}\epsilon - 1}{7x} \rightsquigarrow 1: \quad \frac{^{x}\varsigma - 1}{^{5x}\epsilon - 5x - 1} \rightsquigarrow -\frac{1}{25}: \quad \frac{1 - \,^{x}\epsilon}{1 - \,^{x}\varsigma}$$

$$\frac{(1+4x)^{1/3} - 1}{x} \sim \frac{4}{3}: \quad \frac{\sqrt{1+x}}{x}: \quad \frac{1}{^{x}\varsigma} - \frac{1}{x}: \quad \frac{1}{x} - \frac{1}{^{x}\diagup}$$

$$\boxed{x \rightsquigarrow \infty}$$

$$\left(\frac{x+a}{x+b}\right)^x \sim\ {}^{a-b}\mathfrak{e}:\quad {}^{x}\!\!\not{\ell}^{\,1/x} \sim 1:\quad n^{1/n} \sim 1:\quad \left(1-\frac{1}{x^2}\right)^x \sim 1:\quad \overset{\frown}{x^2+x}^{\,1/2} - \overset{\frown}{x^2-x}^{\,1/2} \sim 1$$

$$^{-x}\mathfrak{e}\, x^2 \sim 0:\quad (\cdot001)^{-1/n} \sim 1:\quad \frac{^{n}\mathfrak{s}}{n} \sim 0:\quad {}^{1/n}\mathfrak{t}\, n \underset{x=1/n}{\models} 1:\quad \frac{\left(x^2+1\right)^{1/2}}{x}:\quad n^2\, 2^{-n} \sim 0$$

$$n^2 + 2n - \left(n^4+1\right)^{1/2} \sim \infty:\quad \left(1-\frac{3}{n}\right)^{2n} \rightsquigarrow e^{-6}:\quad n^{1/\sqrt{n}} \rightsquigarrow 1$$

$$\boxed{x \rightsquigarrow a}$$

$$x \rightsquigarrow 10 \Rightarrow \frac{^{x-9}\!\not{\ell}}{x-10} \rightsquigarrow 1:\quad x \rightsquigarrow e \Rightarrow \frac{x-e}{^{x}\!\not{\ell}-1} \rightsquigarrow :\quad x \rightsquigarrow 1/2 \Rightarrow \frac{2x-{}^{\pi x}\mathfrak{s}}{4x^2-1} \rightsquigarrow \frac{1}{2}$$

$$x \rightsquigarrow \pi/2 \Rightarrow \frac{^{x}\mathfrak{s}\!\not{\ell}}{_{4x}\mathfrak{c}\!\not{\ell}} \rightsquigarrow \frac{1}{16}:\quad x \rightsquigarrow e \Rightarrow {}^{x}\!\not{\ell}^{\,1/(x-e)} \rightsquigarrow$$

$$\boxed{x \rightsquigarrow 0+}$$

$$\frac{1-{}^{\sqrt{x}}\mathfrak{c}}{^{x}\mathfrak{s}} \rightsquigarrow 1/2:\quad x^{1+3x}\!\not{\ell} \rightsquigarrow :\quad \frac{1}{\sqrt{x}} - \frac{1}{^{x}\mathfrak{s}} \rightsquigarrow -\infty:\quad x^{\mathfrak{s}7} \rightsquigarrow :\quad \frac{^{1/x}\mathfrak{e}}{1-{}^{x}\!\not{\ell}} \rightsquigarrow \infty$$

$$^{-1/x}\mathfrak{e}\,^{x}\!\not{\ell} \rightsquigarrow :\quad {}^{x}\mathfrak{s}\!\not{\ell}\, x \text{ why well-def}$$