

$$\frac{(r+s)(r-s)}{s^2 - r^2} = \frac{(r+s)(r+s) - (r-s)}{(r+s)(s-r)} = \frac{4rs}{(r+s)(s-r)}$$

$$\frac{v_1 - v_2}{2} = \gamma = \frac{\gamma_1 - \gamma_2}{2\pi\delta} = \gamma^{1+2}$$

$$D : E = 5 - 8 = 1$$

$$m_{1,2} = \frac{6}{d+8} = 2,1$$

$$h_9 = \sigma_9 + h = \sigma : N$$

$$\lim_{x \rightarrow \infty} \frac{x - 3x^2 - x}{3x^2 - 3x - 5} = \infty$$

$$\frac{z^2 - w^2}{(z-w)(z-w)} = \lim_{z \rightarrow w} \frac{z-w}{z-w} =$$

$$\log g = R_1 x_2 y$$

$$\lim_{n \rightarrow \infty} \frac{a_n}{a_{n+2}} = \frac{5}{2} \cdot \frac{1}{2} = \frac{5}{4}$$

$$\frac{(t+\pi)(v-\pi)}{\sqrt{t-v+2\pi} \cdot \sqrt{v+t+2\pi}} = \frac{t+v}{2}$$

$$\frac{1}{2} \cdot \frac{1}{315} = 0.00317$$

$$N : \Delta = 8 + 16 = 25$$

$$Q = \frac{1 - e^{-\lambda t}}{\lambda t + 3}$$

$$\tilde{c} = \frac{c}{r} = \frac{r+s}{r+s} \quad r < s =$$

$$\frac{(r+n)(r-n)}{(r-n)(r+n)} = \frac{1}{r-n}$$

$$\lim_{n \rightarrow \infty} \frac{n^{2+3k}}{n^{2-k}} = 0$$

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$$1. \lim_{n \rightarrow \infty} \frac{2^n - n}{n^2 + n} = \lim_{n \rightarrow \infty} \frac{(2^n - n)(n+1)}{n(n+1)^2} = \lim_{n \rightarrow \infty} \frac{n(2^n - n)}{n(n+1)^2} = \lim_{n \rightarrow \infty} \frac{2^n - n}{n+1} = \lim_{n \rightarrow \infty} 2^n = \infty$$

$\begin{array}{c|cc|c} 0 & 2^n - n & n+1 \\ \hline 0 & 2^n & n \\ \hline 2^n & 1 & 1 \\ 2^n - n & 0 & 1 \\ \hline \end{array}$

$\Delta : a$

$$2. \lim_{n \rightarrow \infty} \frac{3^n - 3^{n-1}}{3^n + 2} = \lim_{n \rightarrow \infty} \frac{3^n(1 - \frac{1}{3})}{3^n(1 + \frac{2}{3^n})} = \lim_{n \rightarrow \infty} \frac{3 \cdot (1 - \frac{1}{3})}{1 + \frac{2}{3^n}} = \lim_{n \rightarrow \infty} 3 \cdot \frac{2}{3} = 2$$

$\begin{array}{c|cc|c} 0 & 3^n - 3^{n-1} & 1 + \frac{2}{3^n} \\ \hline 0 & 3^n & 3^n \\ \hline 3^n & 1 & 1 \\ 3^n - 3^{n-1} & 0 & 1 \\ \hline \end{array}$

$\Delta : a$

$$3. \lim_{n \rightarrow \infty} \frac{3^{n+2} - 6^{n-2}}{3^{n+2} - 8^n + 2} = \lim_{n \rightarrow \infty} \frac{3^{n+2}(1 - \frac{1}{3^{n-2}})}{3^{n+2}(1 - \frac{8}{3^n} + \frac{2}{3^{n+2}})} = \lim_{n \rightarrow \infty} \frac{1 - \frac{1}{3^{n-2}}}{1 - \frac{8}{3^n} + \frac{2}{3^{n+2}}} = \lim_{n \rightarrow \infty} \frac{1 - 0}{1 - 0 + 0} = 1$$

$$4. \lim_{n \rightarrow \infty} \frac{a^n - 4^{-n}}{a^n - 4^{-n} + 2^{-n}} = \lim_{n \rightarrow \infty} \frac{a^n(a^{-n} - 4^{-n})}{a^n(a^{-n} - 4^{-n} + 2^{-n})} = \lim_{n \rightarrow \infty} \frac{a^{-n} - 4^{-n}}{a^{-n} - 4^{-n} + 2^{-n}} = \lim_{n \rightarrow \infty} \frac{a^{-n} - 1}{a^{-n} - 1 + 2^{-n}} = \lim_{n \rightarrow \infty} \frac{0 - 1}{0 - 1 + 0} = -1$$

$$N: \Delta = 169 + 56 = 225$$

$$5. \lim_{n \rightarrow \infty} \frac{2^{n+2} - 13 \cdot 2^n - 2}{2^{n+2} + 4 \cdot 2^n + 1} =$$

$$\lim g = \mathbb{R} \setminus \{-\frac{1}{2}\}$$