

$$\sqrt{n^2 - 1} - \sqrt{n^2 + 1} \rightsquigarrow 0; \quad \sqrt{n^4 + n^2} - \sqrt{n^4 - n^2} \rightsquigarrow 1; \quad \sqrt{n^2 - 2n} - \sqrt{n^2 + 2n} \rightsquigarrow -2$$

$$: \quad \sqrt{4n^2 + n} - 2\sqrt{n^2 - 1} \rightsquigarrow \frac{1}{4}$$

$$\sqrt{n^2 - n} - n \rightsquigarrow -\frac{1}{2}; \quad 4n - \sqrt{16n^2 + 6n - 5} \rightsquigarrow -\frac{3}{4}; \quad \sqrt{4n^2 + 5n - 7} - 2n \rightsquigarrow \frac{5}{4}; \quad \sqrt{n^2 - 1} - n \rightsquigarrow 0$$

$$: \quad \sqrt{n^2 - n + 1} - n \rightsquigarrow -\frac{1}{2}; \quad \sqrt{3n^2 + 2n - 5} - n\sqrt{3} \rightsquigarrow \frac{1}{\sqrt{3}}$$

$$\sqrt{n + \sqrt{n}} - \sqrt{n - \sqrt{n}} \rightsquigarrow 1$$

$$\frac{n}{\sqrt{n^2 + 1} + \sqrt{2n^2 + 1}} \rightsquigarrow \sqrt{2} - 1$$

$$\frac{2n - 1}{n + \sqrt{n^2 + 1}} \rightsquigarrow 1$$

$$\frac{\sqrt{n^2 + 5} - n}{\sqrt{n^2 + 2} - n} \rightsquigarrow \frac{5}{2}$$

$$\frac{n - 3}{\sqrt{n^2 + n} - \sqrt{n^2 + 2}} \rightsquigarrow +\infty$$

$$\frac{1}{\sqrt{9n^2 + 3n + 1} - 3n} \rightsquigarrow 2$$

$$\frac{3n^2 - \sqrt{n^3 + 1}}{n^2 - 2n + 4} \rightsquigarrow 3$$

$$(n^3 + n)^{1/3} - n \rightsquigarrow 0; \quad (n^3 + 2n^2)^{1/3} - n \rightsquigarrow \frac{2}{3}; \quad (n^3 + 2n - 1)^{1/3} - n \rightsquigarrow 0; \quad (n^3 + 5)^{1/3} - n \rightsquigarrow 0$$

$$n \left((n^3 + n)^{1/3} - n \right) \rightsquigarrow \frac{1}{3}$$

$$(n^3 - n)^{1/3} - n + 2 \rightsquigarrow 2$$

$$\frac{(n^3 + 2n)^{1/3} - n}{n} \rightsquigarrow 0; \quad \frac{(n^3 - n + 1)^{1/3} - n}{n - 1} \rightsquigarrow 0$$

$$\frac{n + 1}{(9n^3 - 3n + 1)^{1/3} - 3n} \rightsquigarrow \frac{1}{9^{1/3} - 3}; \quad \frac{5n}{(8n^3 + n)^{1/3} - n} \rightsquigarrow 5$$

$$\frac{1}{(8n^3 + 5n)^{1/3} - 2n} \rightsquigarrow +\infty$$

$$\sqrt{n+1}-\sqrt{n}\mathfrak{b} \,\,\,\curvearrowright\,\, 0$$

$$\sqrt{n^2-n\sqrt{n^2-1}}\,\,\,\curvearrowright\,\, \frac{1}{\sqrt{2}}$$

$$\left(\sqrt{n+1}-\sqrt{n}\right){}^n\mathfrak{c} \,\,\,\curvearrowright\,\, 0$$