

افترقی

$$\lim_{n \rightarrow 1} \frac{f(n) - f(m)}{d(n) - d(m)} = \frac{f(1) - f(m)}{d(1) - d(m)}$$

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$$\frac{(n-1)(f(m)-2)}{(n-1)(d(m)-2)} = \frac{f(1)-2}{d(1)-2} = \frac{1}{2}$$

$$\lim_{n \rightarrow 0} \frac{|2n-1| - |2m+1|}{n} = \frac{0}{0} \Rightarrow \frac{2m-1-2m+1}{n} = \frac{-4m}{n}$$

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= -4 ✓

$$\lim_{n \rightarrow 4} \frac{n-4}{\sqrt{n}-2} = \frac{0}{0} \Rightarrow \frac{(\sqrt{n}-2)(\sqrt{n}+2)}{\sqrt{n}-2} = \sqrt{4}+2 = 4$$

$$\lim_{n \rightarrow 2} \frac{n - \sqrt{2n}}{n^2 - n - 4} = \frac{0}{0} \Rightarrow \frac{n^2 - 2n}{n^2 - n - 4} = \frac{2}{-2} = -1$$

$$\lim_{n \rightarrow 1} \frac{1 - \sqrt{n}}{n - \sqrt{d-n}} = \frac{0}{0} \Rightarrow \frac{1-n}{n-d+n} = \frac{-1}{-d+n} = \frac{1}{d}$$

$$\lim_{n \rightarrow 4} \frac{\sqrt{2n+4} - 2}{\sqrt{2n+4} - 2} = \frac{0}{0} \Rightarrow \frac{2(\sqrt{n+2} - 1)}{2(\sqrt{n+2} - 1)} = \frac{2}{2} = 1$$

$$\lim_{n \rightarrow 1} \frac{\sqrt{4n+5} - 3}{\sqrt{2n}-1} = \frac{0}{0} \Rightarrow \frac{4n+5-9}{2n-1} = \frac{4n-4}{2n-1} = \frac{4(n-1)}{(n-1)(n+1)} = \frac{4}{n+1} = \frac{4}{2} = 2$$

$$\lim_{n \rightarrow \pi} \frac{1 + \cos^n}{\sin^n} = \frac{0^r}{0^r} \rightsquigarrow \frac{(1 + \cos^n)(1 + \cos^n - \cos^n)}{(1 - \cos^n)(1 - \cos^n)} = \frac{1}{1} = 1$$

$$\lim_{n \rightarrow \frac{\pi}{2}} \frac{1 - \tan^n}{\sin^n - \cos^n} = \frac{0^r}{0^r} \rightsquigarrow \frac{\cos^n - \sin^n - 1}{\cos^n} = \frac{-1}{\frac{1}{\sqrt{2}}} = -\sqrt{2}$$

$$\lim_{n \rightarrow \frac{3\pi}{2}} \frac{\tan^n - 1}{\cos^n} = \frac{0^r}{0^r} \rightsquigarrow \frac{\sin^n - \cos^n - 1}{\cos^n} = \frac{-1}{\frac{1}{\sqrt{2}}} = -\sqrt{2}$$

این سه تا جواب به هم می آید