

مشتق  $\frac{\Lambda n - \sqrt{\Lambda}}{10n - \Lambda} \xrightarrow{n=1} \frac{\Lambda - \sqrt{\Lambda}}{10 - \Lambda} = \frac{1}{2}$

$\lim_{n \rightarrow 0} \frac{1 - \sqrt[n]{n} - \sqrt[n-1]{n-1}}{n} = \frac{-\frac{1}{n}}{n} = -\frac{1}{n^2}$   
 $\lim_{n \rightarrow 0} \frac{1 - \sqrt[n]{n} - \sqrt[n-1]{n-1}}{n} = \frac{-\frac{1}{n}}{n} = -\frac{1}{n^2}$   
 $\lim_{n \rightarrow 0} = -\frac{1}{n^2}$   
 $\frac{n-4}{\sqrt{n}} \times \frac{\sqrt{2n+2}}{\sqrt{n}} = \frac{(n-4)(\sqrt{2n+2})}{n\sqrt{n}}$

$\frac{1-\sqrt{n}}{2-\sqrt{5-n}}$  ضرب و تقسیم صورت و مخرج  
 $\frac{1-n}{2+\sqrt{5-n}} \times \frac{2+\sqrt{5-n}}{2+\sqrt{5-n}} = \frac{1-n}{4-5+n} = \frac{1-n}{n-1} = -1$   
 $\frac{1-\sqrt{n}}{2-\sqrt{5-n}} = -1$

$\frac{1-\sqrt{n}}{2-\sqrt{5-n}}$  ضرب و تقسیم صورت و مخرج  
 $\frac{1-\sqrt{n}}{2-\sqrt{5-n}} \times \frac{2+\sqrt{5-n}}{2+\sqrt{5-n}} = \frac{1-n}{4-5+n} = \frac{1-n}{n-1} = -1$   
 $\frac{1-\sqrt{n}}{2-\sqrt{5-n}} = -1$

$\frac{\sin^2 \theta}{\cos^2 \theta} = \frac{\sin^2 \theta \cos^2 \theta}{\cos^2 \theta} = \frac{-1}{\cos^2 \theta} = -\frac{1}{\cos^2 \theta}$   
 $\frac{1+\cos^2 \theta}{1-\cos^2 \theta} = \frac{(1+\cos \theta)(1+\cos \theta)}{(1-\cos \theta)(1+\cos \theta)} = \frac{1+1+\cos \theta}{1+1-\cos \theta} = \frac{2+\cos \theta}{2-\cos \theta}$

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 $\frac{-1 - \tan^2 \theta}{\cos \theta + \sin \theta} \xrightarrow{\theta = \frac{\pi}{4}} \frac{-1-1}{\frac{\sqrt{2}}{2} + \frac{\sqrt{2}}{2}} = \frac{-2}{\sqrt{2}} = -\sqrt{2}$