

$$\ln \frac{1 - \tan n}{\sin n - \cos n} = \frac{\frac{\cos n - \sin n}{\cos n}}{\frac{\sin n - \cos n}{1}} = \frac{-1}{\cos n} = \frac{-1}{\frac{1}{\sqrt{2}}} = \boxed{\frac{-\sqrt{2}}{1}}$$

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$$\ln \frac{\tan^{-1} 1}{\cos^{-1} 1} = \frac{\frac{\sin^{-1} 1 - \cos^{-1} 1}{\cos^{-1} 1}}{\frac{\cos^{-1} 1 - \sin^{-1} 1}{1}} = \frac{-1}{\cos^{-1} 1} = \frac{-1}{\frac{1}{\sqrt{2}}} = \boxed{\frac{-\sqrt{2}}{1}}$$

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