

9.1.60

$$\lim_{n \rightarrow \infty} (\ln n - \ln(n+1)) = \lim_{n \rightarrow \infty} \ln \frac{n}{n+1} = \lim_{n \rightarrow \infty} \ln \frac{n}{n(1+1/n)} = \lim_{n \rightarrow \infty} \ln \frac{1}{1+1/n} = \ln \frac{1}{1+0} = \ln 1 = 0.$$

Therefore, this sequence **converges** to 0.