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$$\lim_{n \to +\infty} \frac{e^n - e^{-n}}{e^n + e^{-n}} = \lim_{n \to +\infty} \frac{e^n(1 - e^{-2n})}{e^n(1 + e^{-2n})}$$

$$= \lim_{n \to +\infty} \frac{\cancel{e^n}\left(1 - \cancel{\frac{1}{e^{2n}}}^{\;0}\right)}{\cancel{e^n}\left(1 + \cancel{\frac{1}{e^{2n}}}^{\;0}\right)} = \frac{1}{1} = 1$$

So the sequence converges to 1.