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Q $$\lim_{n\to\infty} \int_0^a \frac{e^x}{1+x^n}\,dx$$

Ans. $$= \int_0^a \lim_{n\to\infty} \left(\frac{e^x}{1+x^n}\right) dx$$

$$= \int_0^1 \lim_{n\to\infty} \left(\frac{e^x}{1+x^n}\right) dx + \int_1^a \lim_{n\to\infty} \left(\frac{e^x}{1+x^n}\right) dx$$

$$= e^1 - e^0$$

$$=$$