













2.8

3)
$$\lim_{n\to\infty} \left(1 \cdot \frac{1}{n}\right)^n = \lim_{n\to\infty} \left(1 \cdot \frac{1}{n}\right)^{n-1} = \frac{1}{n} \cdot \frac{2^{n-1} \cdot 2^{n-1}}{2^{n-1}} = \frac{1}{n} \cdot \frac{1}{2^{n-1}} = \frac{1}{n} \cdot \frac{1}{n} = \frac{1}{n} \cdot \frac{$$