$$1. \sum_{n=1}^{\infty} \left(\frac{n}{2n+1} \right)^n$$

11.
$$\sum_{n=1}^{\infty} \left(\frac{1}{n} - \frac{1}{n^2} \right)^n$$

$$2. \sum_{n=1}^{\infty} \left(\frac{2n}{n+1} \right)^n$$

$$12. \sum_{n=1}^{\infty} \left(\frac{\ln(n)}{n} \right)^n$$

$$3. \sum_{n=2}^{\infty} \left(\frac{2n+1}{n-1} \right)^n$$

$$13. \sum_{n=2}^{\infty} \frac{n}{(\ln n)^n}$$

$$4. \sum_{n=1}^{\infty} \left(\frac{4n+3}{2n-1} \right)^n$$

14.
$$\sum_{n=1}^{\infty} \frac{(n!)^n}{(n^n)^2}$$

$$5. \sum_{n=2}^{\infty} \frac{\left(-1\right)^n}{\left(\ln n\right)^n}$$

6.
$$\sum_{n=1}^{\infty} \left(\frac{-3n}{2n+1} \right)^{3n}$$

7.
$$\sum_{n=1}^{\infty} (2\sqrt[n]{n} + 1)^n$$

$$8. \sum_{n=0}^{\infty} \left(e^{-n} \right)$$

9.
$$\sum_{n=1}^{\infty} \left(\frac{n}{4^n} \right)$$

10.
$$\sum_{n=1}^{\infty} \left(\frac{n}{500} \right)^n$$