

$$\frac{5}{2n+1}$$

(2)

$$\frac{e^n}{n!}$$

(4)

$$\sin\left(\frac{1}{n}\right)$$

(8)

$$\frac{(-1)^n n}{e^n}$$

(16)

$$\frac{\sin n^2}{\sqrt{n}}$$

(22)

$$\frac{(-1)^n n^4}{n!}$$

(26)

$$\frac{n8^n}{3^{2n+1}}$$

(34)

$$\cos\left(\frac{n}{n^2}\right)$$

(3)

$$\left(1 + \frac{1}{n}\right)^n$$

(9)

$$\frac{\ln n}{\ln(n^2)}$$

(27)

$$\frac{\sqrt{n^2+1}}{3n-1}$$

(33)

$$\frac{3n^3+n}{1-4n^2}$$

(7)

$$\frac{(-1)^n 2^n}{n^4}$$

(49)

$$\frac{(-1)^n n^2}{n^2+1}$$

(77)

$$\frac{n}{\ln n}$$

(5)

$$\frac{10^n}{n5^n}$$

(25)

$$\frac{n^2}{n \ln n}$$

(55)

$$\frac{e^n}{\sqrt{n}}$$

(85)