

Series	Converges or Diverges?	Which Test?
1. $\sum_{n=1}^{\infty} \frac{n^2 - 1}{n^2 + n}$		
2. $\sum_{n=1}^{\infty} \frac{3^k + 4^k}{5^k}$		
3. $\sum_{n=1}^{\infty} \frac{1}{n^2 + n}$		
4. $\sum_{n=2}^{\infty} \frac{1}{n \ln n}$		

Converge or Diverge?

5. $\sum_{k=1}^{\infty} \left(\frac{e}{\pi}\right)^{k-1}$	6. $\sum_{k=1}^{\infty} \frac{1}{\sqrt[k]{e}}$
7. $\sum_{n=1}^{\infty} \frac{3^n}{\sqrt{2}}$	8. $\sum_{k=1}^{\infty} \frac{2}{\sqrt[5]{k^4}}$
9. $\sum_{n=1}^{\infty} 3n^{-3.2}$	10. $\sum_{k=1}^{\infty} \left(\frac{1}{\ln 2}\right)^{k-1}$

Use Direct Comparison Test:

11. $\sum_{n=2}^{\infty} \frac{1}{\ln n}$	12. $\sum_{n=2}^{\infty} \frac{1}{\sqrt{n} + 3^n}$
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Use Limit Comparison Test:

13. $\sum \frac{1}{2n+1}$	14. $\sum \frac{3}{\sqrt{n^2-4}}$	15. $\sum \frac{n^2-10}{4n^5+n^3}$
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