

## Series Practice Solutions

1. Converges Conditionally by Alternating Series and Limit Comparison Tests.
2. Diverges by Divergence Test.
3. Converges Conditionally by Alternating Series and Direct Comparison Tests.
4. Converges Absolutely by Direct Comparison to a Geometric Series.
5. Converges Absolutely by Direct Comparison to a sum of Geometric Series.
6. Absolutely Convergent Telescoping Series.
7. Converges Absolutely by Root Test.
8. Converges Absolutely by Direct Comparison to p-series.
9. Converges Absolutely by Root Test.
10. Converges Conditionally by Alternating Series and Cauchy Condensation Tests.
11. Converges Absolutely by Root Test.
12. Converges Absolutely by Limit Comparison and Integral Tests.
13. Diverges by Divergence Test.
14. Converges Absolutely by Root Test.
15. Converges Absolutely by Direct Comparison to p-series.
16. Converges Absolutely by Direct Comparison and Root Tests.
17. Diverges by Divergence or Ratio Tests.
18. Converges Absolutely by Ratio Test.
19. Diverges by Ratio Test.