# Series quiz

Select each of the following

1. Converges or Diverges
2. p-series, geometric, alternating, nth term
3. Converges or Diverges
4. p-series, geometric, alternating, nth term
5. Converges or Diverges
6. p-series, geometric, alternating, nth term
7. Converges or Diverges
8. p-series, geometric, alternating, nth term
9. Converges or Diverges
10. p-series, geometric, alternating, nth term
11. Converges or Diverges
12. p-series, geometric, alternating, nth term
13. Converges or Diverges
14. p-series, geometric, alternating, nth term
15. Converges or Diverges
16. p-series, geometric, alternating, nth term
17. Converges or Diverges
18. p-series, geometric, alternating, nth term
19. Converges or Diverges
20. p-series, geometric, alternating, nth term

Find the interval of convergence of

Let . Use the first 4 terms of this series to approximate . Call this approximation . Find an upper bound on the error .

Find the sum or prove that the series diverges.

For which values of will the following series converge: