Series Review Sheet

Determine whether the series converges or diverges. Make sure you (1) state test and its requirements, (2) do test, (3) tell conv/div, and (4) find sum if possible.

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| 1.  | 2.  | 3.  |
| 4.  | 5.  | 6.  |
| 7.  | 8.  | 9.  |
| 10.  | 11.  | 12.  |
| 13.  | 14.  | 15.  |
| 16.  | 17.  | 18. 0  |
| 19.  | 20. $\frac{1}{3}-\frac{1}{6}+\frac{1}{12}-\frac{1}{24}+…$ |
| 21. Find the nth term and tell whether the sequence converges or diverges.  ? |
| 22. Find the sum of the series $\sum\_{n=0}^{\infty }\frac{\left(-1\right)^{n}}{n!}$ correct to 3 decimal places. |