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| **Literacy**  method of differences, partial fractions. | **Research**  **Method of Differences Homework**  Research the use of the method of differences for summing convergent infinite series. | **Memory**  If then | | |
| **Skills**   1. By considering where or otherwise, find the sum of the following series 2. Using the method of differences show that 3. Use the identity to find 4. Find using an appropriate function and the method of differences. | | | **Stretch**   1. By considering the function Find the sum of the first terms of the series 2. Let . Simplify . Use your result to find the sum of the first terms of the series |