**10.5 – Harmonic Series and *p*-Series**

For the following *p*-series, determine whether they are convergent or divergent.

|  |  |
| --- | --- |
| **1.)**    | **2.)**  |
| **3.)**  | **4.)**  |
| **5.)**   | **6.)**   |

**Review** Determine the convergence or divergence of the series and specify what test you are using.

|  |  |
| --- | --- |
| **7.)**   | **8.)**   |
| **9.)**   | **10.)**  |
| **11.)** Converges because the series is the difference of two convergent *p* – series with *p* > 1 by the *p*–series Test. | **12.)**  |
| **13.)**   | **14.)**   |