**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.)** |