PSet 13 final answers

1. Absolutely convergent
2. Absolutely convergent
3. Conditionally convergent
4. Conditionally convergent
5. Absolutely convergent
6. Absolutely convergent
7. Convergent: $L = 1/5$
8. Convergent; $L = 0$
9. divergent: $L = \infty$
10. convergent; $L = 1/e$
11. convergent; $L = 0$
12. divergent; $L = 4$
13. convergent; $L = \dfrac{1}{2e}$
14. (show steps)