Answers: More Series Practice Problems

Determine whether each of the following series is convergent or divergent.

1. converges (use the Comparison Test)
2. converges (use the Ratio Test)
3. diverges (use the Integral Test)
4. diverges (use the Test for Divergence)
5. diverges (use the Ratio Test)
6. converges (use the Comparison Test)
7. diverges (use the Geometric Series Test)
8. converges (use the Ratio Test)
9. converges (use the Ratio Test)
10. converges (use the Ratio Test)
11. diverges (use the Ratio Test)
12. converges (use the Comparison Test)

Determine whether each of the following series is convergent or divergent. If the series is convergent, find its sum.

1. converges to 8
2. converges to 4
3. diverges
4. diverges
5. converges to 15
6. converges to $\frac{\cos 1}{1-\cos 1}$
7. converges to 11/6
8. diverges