Sequences Practice Problems Answers

For each of the following problems, determine whether the sequence $\{a_n\}$ converges or diverges. If the sequence converges, find its limit.

- 1. converges to 5
- 2. converges to 1/3
- 3. converges to 0
- 4. converges to 1
- 5. diverges
- 6. diverges
- 7. converges to 0
- 8. diverges
- 9. converges to 0
- 10. converges to 1
- 11. converges to 0
- 12. converges to 0
- 13. diverges
- 14. converges to 0
- 15. converges to 0
- 16. converges to $\ln 2$
- 17. diverges
- 18. converges to 2
- 19. (a) diverges, (b) converges to 2
- 20. The sequence is monotone decreasing and bounded below by 0. Thus, the sequence converges.