

## 8.9: Improper Integrals

**Learning Objectives.** Upon successful completion of Section 8.9, you will be able to...

- Answer conceptual questions involving improper integrals.
- Evaluate improper integrals with an infinite limit of integration.
- Evaluate improper integrals with unbounded integrands.
- Find areas and volumes using improper integrals.
- Use the comparison test to determine whether an integral converges or diverges.

**Title**