Key point. *Midpoint Rule* (page 412).

Key point. *Trapezoidal Rule* (page 413).

- Consider Example 1 (pages 413 - 415).

Key point. *Error Bounds* (page 415).

- Watch and Learn from the Video Lessons:
  Example 2. The Trapezoidal Rule.
  Example 3. The Midpoint Rule.

Key point. *Simpson's Rule* (page 418).

- Consider Example 4 (page 418).
- Watch and Learn from the Video Lessons:
  Example 5. Approximating Net Change.
Key point. Error Bound for Simpson's Rule (page 419).

- Consider Example 6 (page 420).
- Consider Example 7 (page 420).

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- Do Exercise 9, page 421.

Section 5.10 Improper Integrals

Key point. Definition of an Improper Integral of Type 1 (page 424).

- Watch and Learn from the Video Lessons:
  Example 1. An Improper Integral of Type 1.
- Consider Example 2 (page 425).
- Consider Example 4 (page 426).

Key point. Definition of an Improper Integral of Type 2 (page 427).

- Consider Example 5 (pages 427 - 428).
- Watch and Learn from the Video Lessons:
  Example 6. An Improper Integral of Type 2.
Key point. *Comparison Theorem* (page 429).

- Watch and Learn from the Video Lessons:

Example 9. Comparison Test for Integrals.

*Tutorial and self-assessment questions*

- Do Exercise 5, page 431.