CHAPTER 3 Quiz 1
For use after Lessons 3.1–3.2

Graph the linear system and estimate the solution.

1. \[3x + y = 9 \quad x - 2y = 10\]
2. \[4x - 3y = 12 \quad 2x + 3y = 18\]

Answers
1. See left.

Solve the system. Then classify the system as consistent and independent, consistent and dependent, or inconsistent.

3. \[3x - 5y = 9 \quad 6x - 10y = 18\]
4. \[4x - y = 12 \quad y = -8 + 4x\]

Solve the system using the substitution method.

5. \[3x - 11y = 16 \quad x + y = 3\]
6. \[6x - 12y = 16 \quad 3x - 6y = 8\]
7. \[4x - y = 4 \quad x + 2y = 10\]

Solve the system using the elimination method.

8. \[7x - 2y = 15 \quad 7x + 2y = 13\]
9. \[3x + 7y = 11 \quad 2x - 3y = -8\]
10. \[9x + 5y = 24 \quad 3x + 2y = 9\]