Algebra 1, 6.1.1, 6.2.1, 6.3.1, and 6.3.2 Target Check

6.1.1: I can solve systems of linear equations by graphing.

1. \( y = x + 5 \)
   \( y = -5x - 1 \)

2. \( y = -5x - 2 \)
   \( y + 2 = -5x \)
3. \( y = 5x + 4 \)
   \( y = 5x - 3 \)

6.2.1: I can solve systems of linear equations by substitution.

4. \( y = x + 6 \)
   \( y = 2x \)

5. \( 3x + 2y = 7 \)
   \( y = -3x + 11 \)

6. \( y = 6x + 2 \)
   \( 3y - 18x = 12 \)
   a. one solution  
   b. two solutions  
   c. infinitely many solutions  
   d. no solution

7. \( x = -4y + 4 \)
   \( 2x + 8y = 8 \)
   a. one solution  
   b. two solutions  
   c. infinitely many solutions  
   d. no solution
6.3.1: I can solve systems of linear equations by adding and subtracting to eliminate a variable.

8. \(2x - 2y = -8\)
   \(x + 2y = -1\)

9. \(5x + 4y = -2\)
   \(x - 4y = 14\)

6.3.2: I can solve systems of linear equations by multiplying and adding/subtracting to eliminate a variable.

10. \(3x - 4y = -24\)
    \(x + y = -1\)

11. \(x + 2y = -6\)
    \(3x + 8y = -20\)

12. \(y - 5x = -6\)
    \(3y - 15x = -12\)
    a. one solution
    b. two solutions
    c. infinitely many solutions
    d. no solution

13. \(x - 2y = 6\)
    \(3x - 6y = 18\)
    a. one solution
    b. two solutions
    c. infinitely many solutions
    d. no solution
Algebra 1, 6.1.1, 6.2.1, 6.3.1, and 6.3.2 Target Check
Answer Section

1. ANS:

PTS: 1  DIF: L3  REF: 6-1 Solving Systems By Graphing
OBJ: 6-1.1 To solve systems of equations by graphing
TOP: 6-1 Problem 1 Solving a System of Equations by Graphing
KEY: consistent | independent | solution of a system of linear equations | system of linear equations
DOK: DOK 1

2. ANS:

ininitely many solutions

PTS: 1  DIF: L3  REF: 6-1 Solving Systems By Graphing
OBJ: 6-1.2 To analyze special systems
TOP: 6-1 Problem 3 Systems With Infinitely Many Solutions or No Solution
KEY: system of linear equations | solution of a system of linear equations | consistent | dependent
DOK: DOK 1
3. ANS: no solutions

4. ANS: (6, 12)

5. ANS: (5, –4)

6. ANS: D

7. ANS: C
8. **ANS:**

\((-3, 1)\)

**PTS:** 1  \hspace{1em}  **DIF:** L3  \hspace{1em}  **REF:** 6-3 Solving Systems Using Elimination

**OBJ:** 6-3.1 To solve systems by adding or subtracting to eliminate a variable

**TOP:** 6-3 Problem 1 Solving a System by Adding Equations  \hspace{1em}  **KEY:** elimination method

**DOK:** DOK 1

9. **ANS:**

\((2, -3)\)

**PTS:** 1  \hspace{1em}  **DIF:** L3  \hspace{1em}  **REF:** 6-3 Solving Systems Using Elimination

**OBJ:** 6-3.1 To solve systems by adding or subtracting to eliminate a variable

**TOP:** 6-3 Problem 1 Solving a System by Adding Equations  \hspace{1em}  **KEY:** elimination method

**DOK:** DOK 1

10. **ANS:**

\((-4, 3)\)

**PTS:** 1  \hspace{1em}  **DIF:** L2  \hspace{1em}  **REF:** 6-3 Solving Systems Using Elimination

**OBJ:** 6-3.1 To solve systems by adding or subtracting to eliminate a variable

**TOP:** 6-3 Problem 3 Solving a System by Multiplying One Equation  \hspace{1em}  **KEY:** elimination method

**DOK:** DOK 1

11. **ANS:**

\((-4, -1)\)

**PTS:** 1  \hspace{1em}  **DIF:** L2  \hspace{1em}  **REF:** 6-3 Solving Systems Using Elimination

**OBJ:** 6-3.1 To solve systems by adding or subtracting to eliminate a variable

**TOP:** 6-3 Problem 3 Solving a System by Multiplying One Equation  \hspace{1em}  **KEY:** elimination method

**DOK:** DOK 1

12. **ANS:** D  \hspace{1em}  **PTS:** 1  \hspace{1em}  **DIF:** L3

**REF:** 6-3 Solving Systems Using Elimination

**OBJ:** 6-3.1 To solve systems by adding or subtracting to eliminate a variable

**TOP:** 6-3 Problem 5 Finding the Number of Solutions  \hspace{1em}  **KEY:** elimination method

**DOK:** DOK 2

13. **ANS:** C  \hspace{1em}  **PTS:** 1  \hspace{1em}  **DIF:** L3

**REF:** 6-3 Solving Systems Using Elimination

**OBJ:** 6-3.1 To solve systems by adding or subtracting to eliminate a variable

**TOP:** 6-3 Problem 5 Finding the Number of Solutions  \hspace{1em}  **KEY:** elimination method

**DOK:** DOK 2