6 | **Chapter 6 Quiz 1**

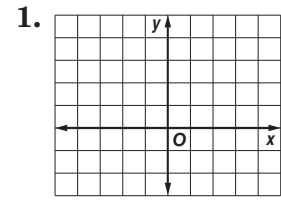*(Lessons 6-1 and 6-2)*

Graph each system of equations. Then determine whether the system has *no* solution, *one* solution, or *infinitely many* solutions. If the system has one solution, name it.

1.

1. $y = \frac{3}{2}x$

$\ y = -x + 5$

2. $x - 2y = -2$

$\ x - 2y = 3$

For Questions 3 and 4, use substitution to solve each system of equations. If the system does not have exactly one solution, state whether it has *no* solutions or *infinitely many* solutions.

2.

3. $3x - 2y = -7$

$\ y = x + 4$

4. $-6x - 2y = -20$

$\ y = -3x + 10$
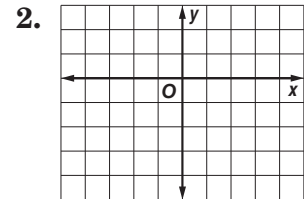
5. MULTIPLE CHOICE In order for José and Marty to compete against each other during the wrestling season next year they need to be in the same weight category. José weighs 180 pounds and plans to gain 2 pounds per week. Marty weighs 249 pounds and plans to lose 1 pound per week. In how many weeks will they weigh the same?

A 23 **B** 34.5 **C** 69 **D** 226

3. _____

4. _____

5. _____

- -

6 | **Chapter 6 Quiz 2**

(Lessons 6-3 and 6-4)

For Questions 1–4, use elimination to solve each system of equations.

1. $x + y = 4$

$\ x - y = 7$

2. $-2x + y = 5$

$\ 2x + 3y = 3$

1. _____

2. _____

3. $4x + 6y = -10$

$\ 8x - 3y = 25$

4. $2x + 3y = 1$

$\ 5x - 4y = 14$

3. _____

4. _____

5. MULTIPLE CHOICE If $5x - 3y = 7$ and $-3x - 5y = 23$, what is the value of x?

A $(-1, -4)$ **B** $(-4, -1)$ **C** -4 **D** -1

5. _____