Name: _____

Solving Systems by Substitution B

Solve each system of equations by substitution. Write the solution as an ordered pair.

1. Solve the system: y = 4x − 16 and 6x + 3y = 42

Solution: _____

2. Solve the system: y = 2x + 3 and 5x − 2y = −6

Solution: _____

3. Solve the system: y = 4x + 27 and 3x − 2y = −29

Solution: _____

4. Solve the system: y = 3x + 11 and 6x + 3y = −42

Solution: _____

5. Solve the system: y = 4x − 4 and 4x + 3y = 36

Solution: _____

6. Solve the system: y = −3x + 3 and 3x − 3y = 27

Solution: _____

7. Solve the system: y = −4x + 4 and 5x − 3y = −29

Solution: _____

8. Solve the system: y = −3x − 9 and 3x + 3y = 3

Solution: _____

9. Solve the system: y = 2x + 10 and 4x − 3y = −24

Solution: _____

10. Solve the system: y = 4x − 18 and 3x + 3y = 36

Solution: _____

Name: **ANSWER KEY**

Solving Systems by Substitution B

Solve each system of equations by substitution. Write the solution as an ordered pair.

1. Solve the system: y = 4x − 16 and 6x + 3y = 42

Solution: (5, 4)

2. Solve the system: y = 2x + 3 and 5x − 2y = −6

Solution: (0, 3)

3. Solve the system: y = 4x + 27 and 3x − 2y = −29

Solution: (−5, 7)

4. Solve the system: y = 3x + 11 and 6x + 3y = −42

Solution: (−5, −4)

5. Solve the system: y = 4x − 4 and 4x + 3y = 36

Solution: (3, 8)

6. Solve the system: y = −3x + 3 and 3x − 3y = 27

Solution: (3, −6)

7. Solve the system: y = −4x + 4 and 5x − 3y = −29

Solution: (−1, 8)

8. Solve the system: y = −3x − 9 and 3x + 3y = 3

Solution: (−5, 6)

9. Solve the system: y = 2x + 10 and 4x − 3y = −24

Solution: (−3, 4)

10. Solve the system: y = 4x − 18 and 3x + 3y = 36

Solution: (6, 6)