Name: _____

Solving Systems by Substitution A

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

1. Solve the system: $y = 2x + 7$ and $2x + y = -9$

   Solution: _____

2. Solve the system: $y = -x + 4$ and $5x + 2y = 32$

   Solution: _____

3. Solve the system: $y = -4x + 13$ and $4x - y = 19$

   Solution: _____

4. Solve the system: $y = 2x + 17$ and $5x + y = -18$

   Solution: _____

5. Solve the system: $y = -3x - 14$ and $2x - 2y = -20$

   Solution: _____

6. Solve the system: $y = x + 3$ and $5x + 3y = 41$

   Solution: _____

7. Solve the system: $y = -3x + 20$ and $4x + 3y = 35$

   Solution: _____

8. Solve the system: $y = 2x + 20$ and $3x - y = -26$

   Solution: _____

9. Solve the system: $y = 4x - 15$ and $3x - y = 12$

   Solution: _____

10. Solve the system: $y = 3x$ and $5x - 2y = 0$

    Solution: _____

Name: **ANSWER KEY**

Solving Systems by Substitution A

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

1. Solve the system: $y = 2x + 7$ and $2x + y = -9$

Solution: $(-4, -1)$

2. Solve the system: $y = -x + 4$ and $5x + 2y = 32$

Solution: $(8, -4)$

3. Solve the system: $y = -4x + 13$ and $4x - y = 19$

Solution: $(4, -3)$

4. Solve the system: $y = 2x + 17$ and $5x + y = -18$

Solution: $(-5, 7)$

5. Solve the system: $y = -3x - 14$ and $2x - 2y = -20$

Solution: $(-6, 4)$

6. Solve the system: $y = x + 3$ and $5x + 3y = 41$

Solution: $(4, 7)$

7. Solve the system: $y = -3x + 20$ and $4x + 3y = 35$

Solution: $(5, 5)$

8. Solve the system: $y = 2x + 20$ and $3x - y = -26$

Solution: $(-6, 8)$

9. Solve the system: $y = 4x - 15$ and $3x - y = 12$

Solution: $(3, -3)$

10. Solve the system: $y = 3x$ and $5x - 2y = 0$

Solution: $(0, 0)$