Solving Systems with Matrix Equations

What is the value of x and y in the following system of equations?

1) $2x - y = -2$

$2x + 3y = 6$

$x = \_\_, y = \_\_$

2) $3x + 4y = 5$

$x + 2y = 1$

$x = \_\_, y = \_\_$

3) $2x + 2y = 14$

$-10x - 2y = -54$

$x = \_\_, y = \_\_$

4) $-2x + 8y = -6$

$-2x + 4y = -6$

$x = \_\_, y = \_\_$

5) $-2x + 2y = 4$

$-2x + y = 3$

$x = \_\_, y = \_\_$

6) $-10x + 2y = -6$

$6x - 16y = 48$

$x = \_\_, y = \_\_$

7) $2y = -6x + 10$

$10x - 8y = -6$

$x = \_\_, y = \_\_$

8) $10x - 9y = -13$

$-5x + 3y = 11$

$x = \_\_, y = \_\_$

9) $-3x - 4y = 5$

$x - 2y = 5$

$x = \_\_, y = \_\_$

10) $5x - 14y = -23$

$-6x + 7y = 8$

$x = \_\_, y = \_\_$