Solving Systems by Substitution Practice Problems

Solve each system by substitution.

1) $y = -4x + 3$
$-3x + 3y = -6$

2) $-4x - y = 12$
$y = 4x + 12$

3) $y = -3x + 5$
$-4x - 2y = -6$

4) $y = 2x - 7$
$-4x - 2y = -10$

5) $y = -4x - 6$
$-x - 3y = 7$

6) $x - 2y = -10$
$-4x - 2y = 0$

7) $4x - y = -12$
$3x + y = -2$

8) $-4x + y = 8$
$-3x - 3y = -9$

9) $x - 2y = -1$
$-4x + 2y = 4$

10) $-x - y = -2$
$-x + y = 0$

Answers to

1) $(1, -1)$
2) $(-3, 0)$
3) $(2, -1)$
4) $(3, -1)$
5) $(-1, -2)$
6) $(-2, 4)$
7) $(-2, 4)$
8) $(-1, 4)$
9) $(-1, 0)$
10) $(1, 1)$