Solving Systems of Equations by Substitution

Date_____ Period____

Solve each system by substitution.

1) $y = 6x - 11$
$-2x - 3y = -7$

(2, 1)

2) $2x - 3y = -1$
$y = x - 1$

(4, 3)

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

(1, 2)

4) $-3x - 3y = 3$
$y = -5x - 17$

(–4, 3)

5) $y = -2$
$4x - 3y = 18$

(3, –2)

6) $y = 5x - 7$
$-3x - 2y = -12$

(2, 3)

7) $-4x + y = 6$
$-5x - y = 21$

(–3, –6)

8) $-7x - 2y = -13$
$x - 2y = 11$

(3, –4)

9) $-5x + y = -2$
$-3x + 6y = -12$

(0, –2)

10) $-5x + y = -3$
$3x - 8y = 24$

(0, –3)

11) $x + 3y = 1$
$-3x - 3y = -15$

$(7, -2)$

12) $-3x - 8y = 20$
$-5x + y = 19$

$(-4, -1)$

13) $-3x + 3y = 4$
$-x + y = 3$

No solution

14) $-3x + 3y = 3$
$-5x + y = 13$

$(-3, -2)$

15) $6x + 6y = -6$
$5x + y = -13$

$(-3, 2)$

16) $2x + y = 20$
$6x - 5y = 12$

$(7, 6)$

17) $-3x - 4y = 2$
$3x + 3y = -3$

$(-2, 1)$

18) $-2x + 6y = 6$
$-7x + 8y = -5$

$(3, 2)$

19) $-5x - 8y = 17$
$2x - 7y = -17$

$(-5, 1)$

20) $-2x - y = -9$
$5x - 2y = 18$

$(4, 1)$