Algebra 2 Name_____ ID: 1

Worksheet 3.5 B

Solve each system by graphing.

1) $y = \frac{5}{4}x - 3$
$y = -\frac{1}{2}x + 4$

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

3) $y = -\frac{1}{2}x + 3$
$y = -\frac{1}{2}x + 2$

4) $y = \frac{1}{2}x - 2$
$y = \frac{1}{2}x - 1$

5) $-x = 3y + 27$
$y = -2 + 2x$

6) $x = 9$
$-2x = -3 - 3y$

7) $3 - 3y = 2x$
$3y + 24 = x$

8) $-\frac{1}{2}y - \frac{3}{2} = 2x$
$12 = -x + 2y$

Solve each system by substitution.

9) $-3x - 21y = 7$
$x + 7y = 3$

10) $-6x - 3y = 3$
$x + 6y = -17$

11) $4x + 8y = -12$
$x - 6y = -19$

12) $-x + 3y = -20$
$-5x + y = -2$

13) $x - 3y = 10$
$-x + 3y = -10$

14) $x + 6y = -22$
$8x - 2y = 24$

15) $x - 8y = 15$
$-7x + 5y = -3$

16) $x - y = -4$
$-x - 8y = 4$

Solve each system by elimination.

17) $6x + 6y = 30$
$-10x + 12y = -6$

18) $18x - 2y = -6$
$9x + 9y = 27$

19) $9x - 2y = -29$
$-18x + y = 28$

20) $9x - y = -20$
$-x + 8y = 18$

21) $6x + 4y = -24$
$-4x - 3y = 19$

22) $-2x - 7y = -16$
$-3x + 3y = 30$

23) $-6x + 7y = -3$
$4x - 3y = -13$

24) $8x - 10y = 30$
$5x - 7y = 15$