Algebra 1

HW20: Solving by Elimination

Solve each system by elimination.

1) $5x - 5y = -35$
$13x + 5y = -37$

2) $9x + 7y = 10$
$-10x - 7y = -8$

3) $14x + 6y = -27$
$-14x - 6y = 34$

4) $2x - 11y = -30$
$-2x + 13y = 38$

5) $-10x + 5y = 0$
$-4x - 5y = 42$

6) $-4x + 14y = 2$
$x - 14y = 31$

7) $x + 2y = 8$
$11x - 2y = -32$

8) $-11x - 9y = -38$
$11x + 6y = -4$

9) $10x + 3y = 20$
$-10x - 3y = -20$

10) $x + 9y = 18$
$-x + 11y = 2$

11) $-3x - y = 2$
$3x - 5y = 28$

12) $-7x - 2y = 11$
$9x + 2y = -13$

13) $7x - 11y = 19$
$-7x + 10y = -23$

14) $8x - 10y = 14$
$-14x + 10y = 28$

Find the least common multiple of each pair of numbers.

15) 20, 16

16) 15, 10

17) 12, 15

18) 14. 16

19) 20, 15

20) 20, 30

21) 30, 25

22) 18, 24

Simplify.

23) $-7\sqrt{8}$

24) $-5\sqrt{32}$