

Solving Systems of Equations by Elimination

Date _____ Period _____

Solve each system by elimination.

1) $-4x - 2y = -12$
 $4x + 8y = -24$

2) $4x + 8y = 20$
 $-4x + 2y = -30$

3) $x - y = 11$
 $2x + y = 19$

4) $-6x + 5y = 1$
 $6x + 4y = -10$

5) $-2x - 9y = -25$
 $-4x - 9y = -23$

6) $8x + y = -16$
 $-3x + y = -5$

7) $-6x + 6y = 6$
 $-6x + 3y = -12$

8) $7x + 2y = 24$
 $8x + 2y = 30$

9) $5x + y = 9$
 $10x - 7y = -18$

10) $-4x + 9y = 9$
 $x - 3y = -6$

11) $-3x + 7y = -16$
 $-9x + 5y = 16$

12) $-7x + y = -19$
 $-2x + 3y = -19$

13) $16x - 10y = 10$
 $-8x - 6y = 6$

14) $8x + 14y = 4$
 $-6x - 7y = -10$

15) $-4x - 15y = -17$
 $-x + 5y = -13$

16) $-x - 7y = 14$
 $-4x - 14y = 28$

17) $-7x - 8y = 9$
 $-4x + 9y = -22$

18) $5x + 4y = -30$
 $3x - 9y = -18$

19) $-4x - 2y = 14$
 $-10x + 7y = -25$

20) $3x - 2y = 2$
 $5x - 5y = 10$

21) $5x + 4y = -14$
 $3x + 6y = 6$

22) $2x + 8y = 6$
 $-5x - 20y = -15$

23) $-14 = -20y - 7x$
 $10y + 4 = 2x$

24) $3 + 2x - y = 0$
 $-3 - 7y = 10x$

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1) $-4x - 2y = -12$

$4x + 8y = -24$

 $(6, -6)$

2) $4x + 8y = 20$

$-4x + 2y = -30$

 $(7, -1)$

3) $x - y = 11$

$2x + y = 19$

 $(10, -1)$

4) $-6x + 5y = 1$

$6x + 4y = -10$

 $(-1, -1)$

5) $-2x - 9y = -25$

$-4x - 9y = -23$

 $(-1, 3)$

6) $8x + y = -16$

$-3x + y = -5$

 $(-1, -8)$

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

$-6x + 3y = -12$

 $(5, 6)$

8) $7x + 2y = 24$

$8x + 2y = 30$

 $(6, -9)$

9) $5x + y = 9$

$10x - 7y = -18$

 $(1, 4)$

10) $-4x + 9y = 9$

$x - 3y = -6$

 $(9, 5)$

11) $-3x + 7y = -16$

$-9x + 5y = 16$

 $(-4, -4)$

12) $-7x + y = -19$

$-2x + 3y = -19$

 $(2, -5)$

13) $16x - 10y = 10$
 $-8x - 6y = 6$
 $(0, -1)$

14) $8x + 14y = 4$
 $-6x - 7y = -10$
 $(4, -2)$

15) $-4x - 15y = -17$
 $-x + 5y = -13$
 $(8, -1)$

16) $-x - 7y = 14$
 $-4x - 14y = 28$
 $(0, -2)$

17) $-7x - 8y = 9$
 $-4x + 9y = -22$
 $(1, -2)$

18) $5x + 4y = -30$
 $3x - 9y = -18$
 $(-6, 0)$

19) $-4x - 2y = 14$
 $-10x + 7y = -25$
 $(-1, -5)$

20) $3x - 2y = 2$
 $5x - 5y = 10$
 $(-2, -4)$

21) $5x + 4y = -14$
 $3x + 6y = 6$
 $(-6, 4)$

22) $2x + 8y = 6$
 $-5x - 20y = -15$
Infinite number of solutions

23) $-14 = -20y - 7x$
 $10y + 4 = 2x$
 $(2, 0)$

24) $3 + 2x - y = 0$
 $-3 - 7y = 10x$
 $(-1, 1)$