

Solving Systems by Substitution and Elimination

Solve each system by substitution.

1) $4x - y = -20$
 $x - 6y = 18$

2) $2x - 5y = 3$
 $-6x + y = -23$

3) $x + 2y = -10$
 $2x - 5y = -11$

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

5) $3x + 6y = 18$
 $x + 7y = 11$

6) $-6x + 8y = -10$
 $2x + y = -15$

7) $x + 3y = 12$
 $-4x + 5y = 3$

8) $-6x + y = 11$
 $-2x + 4y = 22$

9) $x - 3y = -1$
 $-5x + 7y = 5$

10) $-x + 5y = -20$
 $-3x + y = -18$

Solve each system by elimination.

11) $-9x - 6y = 21$
 $3x + y = -2$

12) $7x - 5y = -16$
 $-x + 10y = -7$

13) $-9x - 12y = 21$
 $4x - 2y = 20$

14) $-11x - y = 10$
 $x + 2y = -20$

15) $-7x - 18y = -18$
 $6x - 9y = -9$

16) $3x - 4y = -4$
 $-9x + 5y = 26$

17) $9x - 12y = -24$
 $-6x + 6y = 6$

18) $-x - y = -4$
 $-7x - 3y = -12$

19) $2x + 5y = -3$
 $9x + 10y = -26$

20) $4x - 6y = 12$
 $-8x + 5y = -24$

Solving Systems by Substitution and Elimination

Solve each system by substitution.

1) $4x - y = -20$

$x - 6y = 18$

$(-6, -4)$

3) $x + 2y = -10$

$2x - 5y = -11$

$(-8, -1)$

5) $3x + 6y = 18$

$x + 7y = 11$

$(4, 1)$

7) $x + 3y = 12$

$-4x + 5y = 3$

$(3, 3)$

9) $x - 3y = -1$

$-5x + 7y = 5$

$(-1, 0)$

2) $2x - 5y = 3$

$-6x + y = -23$

$(4, 1)$

4) $x + 7y = -10$

$-2x - 2y = 8$

$(-3, -1)$

6) $-6x + 8y = -10$

$2x + y = -15$

$(-5, -5)$

8) $-6x + y = 11$

$-2x + 4y = 22$

$(-1, 5)$

10) $-x + 5y = -20$

$-3x + y = -18$

$(5, -3)$

Solve each system by elimination.

11) $-9x - 6y = 21$

$3x + y = -2$

$(1, -5)$

13) $-9x - 12y = 21$

$4x - 2y = 20$

$(3, -4)$

15) $-7x - 18y = -18$

$6x - 9y = -9$

$(0, 1)$

17) $9x - 12y = -24$

$-6x + 6y = 6$

$(4, 5)$

19) $2x + 5y = -3$

$9x + 10y = -26$

$(-4, 1)$

12) $7x - 5y = -16$

$-x + 10y = -7$

$(-3, -1)$

14) $-11x - y = 10$

$x + 2y = -20$

$(0, -10)$

16) $3x - 4y = -4$

$-9x + 5y = 26$

$(-4, -2)$

18) $-x - y = -4$

$-7x - 3y = -12$

$(0, 4)$

20) $4x - 6y = 12$

$-8x + 5y = -24$

$(3, 0)$