

Name : _____

Score : _____

Teacher : _____

Date : _____

Solving Algebraically 2 Variable Systems

Use substitution to solve each system.

1) $-6x - 7y = 71$
 $7x + y = -4$

2) $6x + 6y = -60$
 $-3x - 3y = 30$

3) $-4x + 5y = 15$
 $-x + y = 2$

4) $-4x + 9y = 22$
 $-5x - 5y = -5$

5) $-7x - 7y = -18$
 $2x + 2y = -62$

6) $-7x - 7y = -64$
 $9x + 9y = 72$

7) $x - 9y = -83$
 $-x - 3y = -37$

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

9) $4x + 4y = -48$
 $8x + 8y = -96$

10) $6x - 5y = 12$
 $8x - 9y = 44$

11) $3x + 2y = -3$
 $-4x - 8y = 52$

12) $5x - 7y = -60$
 $8x - 8y = -64$



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(1 , -11)

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Infinitely
Many Solutions

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(5 , 7)

4) $-4x + 9y = 22$
 $-5x - 5y = -5$

(-1 , 2)

5) $-7x - 7y = -18$
 $2x + 2y = -62$

No Solution

6) $-7x - 7y = -64$
 $9x + 9y = 72$

No Solution

7) $x - 9y = -83$
 $-x - 3y = -37$

(7 , 10)

8) $-5x + y = 18$
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(-4 , -2)

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Infinitely
Many Solutions

10) $6x - 5y = 12$
 $8x - 9y = 44$

(-8 , -12)

11) $3x + 2y = -3$
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(5 , -9)

12) $5x - 7y = -60$
 $8x - 8y = -64$

(2 , 10)

