Name_____ ID: 1

Systems of Equations Special Cases.

Date_____ Period____

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Solve each system by elimination.

1) $3x + 5y = 1$
$-6x - 10y = 14$

2) $-3x + 4y = 3$
$-12x + 16y = 8$

3) $7x + 3y = 0$
$14x + 6y = 0$

4) $4x + 16y = 16$
$-2x - 8y = -6$

5) $-16x - 20y = 12$
$-8x - 10y = 6$

6) $-7x - 2y = 0$
$14x + 7y = 0$

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Solve each system by substitution.

7) $x - 8y = 1$
$-3x - 6y = -3$

8) $2x + 14y = 4$
$x + 7y = 7$

9) $6x + y = -1$
$-6x - 4y = 4$

10) $2x + y = -3$
$-6x - 3y = -2$

11) $-3x + 12y = 9$
$x - 4y = -3$

12) $3x + 6y = 0$
$x + 2y = 0$

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Solve each system by elimination.

1) $3x + 5y = 1$
$-6x - 10y = 14$

No solution

2) $-3x + 4y = 3$
$-12x + 16y = 8$

No solution

3) $7x + 3y = 0$
$14x + 6y = 0$

Infinite number of solutions

4) $4x + 16y = 16$
$-2x - 8y = -6$

No solution

5) $-16x - 20y = 12$
$-8x - 10y = 6$

Infinite number of solutions

6) $-7x - 2y = 0$
$14x + 7y = 0$

$(0, 0)$

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Solve each system by substitution.

7) $x - 8y = 1$
$-3x - 6y = -3$
$(1, 0)$

8) $2x + 14y = 4$
$x + 7y = 7$
No solution

9) $6x + y = -1$
$-6x - 4y = 4$
$(0, -1)$

10) $2x + y = -3$
$-6x - 3y = -2$
No solution

11) $-3x + 12y = 9$
$x - 4y = -3$
Infinite number of solutions

12) $3x + 6y = 0$
$x + 2y = 0$
Infinite number of solutions

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