Chapter 7.5
Special Types of Linear Systems

What is the solution to the system?

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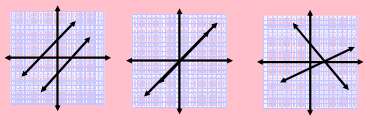
How many solutions do these systems have?



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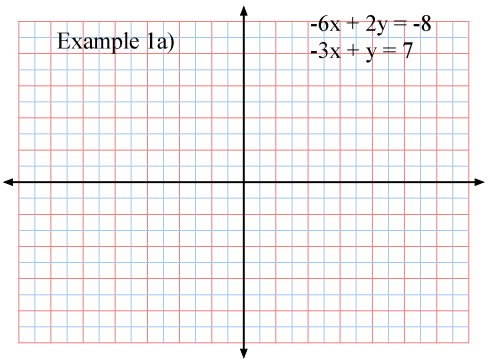
Example 1a)

$-6x + 2y = -8$
$-3x + y = 7$



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Example 1a) Solve algebraically:

$$-6x + 2y = -8$$
$$-3x + y = 7$$

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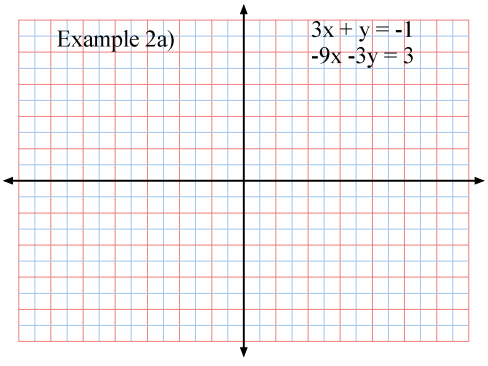
Example 2a)

$3x + y = -1$
$-9x - 3y = 3$



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Example 2a) Solve algebraically:

$$3x + y = -1$$
$$-9x - 3y = 3$$

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1 How many solutions does this system have?

$2x + y = 5$
$-6x - 3y = -15$

A Infinitely many

B No solution

C One solution

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2 How many solutions does this system have?

$-6x + 2y = 4$
$-9x + 3y = 12$

A Infinitely many

B No solution

C One solution

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3 Graph and determine how many solutions the system has: $-x + y = 7$
$2x - 2y = -18$

A Infinitely many

B No solution

C One solution

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In words, how do we determine no solution and infinitely many solutions?

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