LC Math I Name_____

12.1 Homework

Date_____ Period____

1) Nicole and Jenny each improved their yards by planting daylilies and shrubs. They bought their supplies from the same store. Nicole spent $102 on 6 daylilies and 9 shrubs. Jenny spent $126 on 9 daylilies and 9 shrubs. What is the cost of one daylily and the cost of one shrub?

2) Lisa and Ryan are selling pies for a school fundraiser. Customers can buy apple pies and pumpkin pies. Lisa sold 6 apple pies and 11 pumpkin pies for a total of $322. Ryan sold 7 apple pies and 10 pumpkin pies for a total of $319. Find the cost each of one apple pie and one pumpkin pie.

Solve each system by substitution.

3) $x + 4y = -6$
$-5x + 3y = -16$

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

Solve each system by elimination.

5) $-7x + 12y = -18$
$5x - 6y = 18$

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

7) $2x + 7y = -6$
$5x - 3y = 26$

8) $7x + 4y = -2$
$-5x - 10y = 30$

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daylily: $8, shrub: $6

2) Lisa and Ryan are selling pies for a school fundraiser. Customers can buy apple pies and pumpkin pies. Lisa sold 6 apple pies and 11 pumpkin pies for a total of $322. Ryan sold 7 apple pies and 10 pumpkin pies for a total of $319. Find the cost each of one apple pie and one pumpkin pie.

apple pie: $17, pumpkin pie: $20

Solve each system by substitution.

3) $x + 4y = -6$
$-5x + 3y = -16$

$(2, -2)$

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

No solution

Solve each system by elimination.

5) $-7x + 12y = -18$
$5x - 6y = 18$

$(6, 2)$

6) $-9x + 12y = -6$
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$(-2, -2)$

7) $2x + 7y = -6$
$5x - 3y = 26$

$(4, -2)$

8) $7x + 4y = -2$
$-5x - 10y = 30$

$(2, -4)$