NamePeriodDate

**Practice 7-1, 7-2 and 7-3**

**Solving Systems of Linear Equations**



**Solve each system by graphing. Write *no solution* or *infinitely many solutions* where appropriate.**

**1.**  *y* = *x* + 3 **2.** *y* = *x* + 2

 *y* = –2*x* + 3 –4*x* + *y* = –1

 

**3.** *y –* 4 = 2*x* **4.** 2 + *y* = 2*x*

 *y* – 2*x* = 4 *y* – 2*x* = 5

 

**Solve each system using substitution. Write *no solution* or *infinitely many solutions* where appropriate.**

**5.** *x = –*2*y* + 1 **6.** *y =* 5*x +* 5**7.** *y = x –* 3

*x = y –* 5 *y =* 15*x –* 1 *y = –*3*x +* 25

**8.** 5*x +* 6*y = –*76 **9.** 3*x* ***–*** 2*y =* 10 **10.** *–*3*x +* 2*y = –6*

*x +* 2*y = –*44 y **=***–*1 *–* 2*x* + *y* = 6

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| **Solve by elimination. Show your work.** |
| **11.** | *–x* + 8*y* = –323*x – y =* 27 | **12.** | 2*x* + 7*y =* –75*x +* 7*y =* 14 | **13.** | *x* + 6*y =* 48–*x* + *y =* 8 |
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| **14.** | 2*x +* 8*y* = –42*–x +* 8*y =* –63 | **15.** | 5*x* + 9*y =* 1123*x* – 2*y =* 8 | **16.** | 6*x +* 3*y =* 27–4*x +* 7*y =* 27 |
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**17.** Shopping at Savers Mart, Lisa buys her children four shirts and three pairs of pants for $85.50. She returns
 the next day and buys three shirts and five pairs of pants for $115.00. What is the price of each shirt and
 each pair of pants?

**18.** Grandma’s Bakery sells single–crust apple pies for $6.99 and double–crust cherry pies for $10.99. The total
 number of pies sold on a busy Friday was 36. If the amount collected for all the pies that day was $331.64,
 how many of each type were sold?

**19.** At an ice cream parlor, ice cream cones cost $1.10 and sundaes cost $2.35. One day, the receipts for a total of
 172 cones and sundaes were $294.20. How many cones were sold?