Math-2A © 202 0 Kuta Software LLC. All rights reserved. SM2-A HW #7-3 (Solve Systems of Equations Using Elimination)

- The local amusement park is a popular field trip destination. This year the senior class at High School A and the senior class at High School B both planned trips there. The senior class at High School A rented and filled 5 vans and 4 buses with 281 students. High School B rented and filled 13 vans and 8 buses with 601 students. Each van and each bus carried the same number of students. Find the number of students in each van and in each bus.
- 2) Mike and Lea each improved their yards by planting hostas and ivy. They bought their supplies from the same store. Mike spent \$202 on 7 hostas and 12 pots of ivy. Lea spent \$176 on 11 hostas and 6 pots of ivy. Find the cost of one hosta and the cost of one pot of ivy.
- 3) Jasmine's school is selling tickets to the annual dance competition. On the first day of ticket sales the school sold 5 adult tickets and 12 student tickets for a total of \$140. The school took in \$82 on the second day by selling 13 adult tickets and 3 student tickets. Find the price of an adult ticket and the price of a student ticket.

Solve each system by elimination.

4)
$$-x + 8y = 22$$

 $x - 7y = -18$
5) $-2x + 7y = -17$
 $4x - 7y = -1$

6)
$$4x - 10y = 20$$

 $4x - 10y = 20$
 $-x - 8y = 9$
 $-x - 10y = 11$

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

 $7x - 14y = 0$
9) $2x + 5y = 16$
 $4x + 10y = 24$

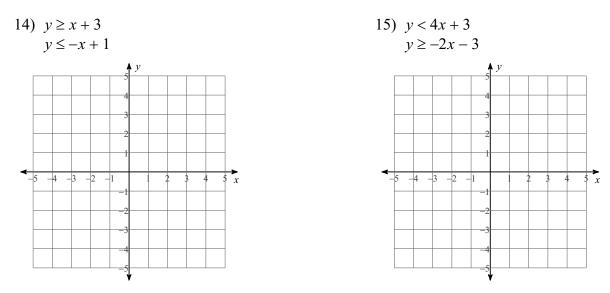
10)
$$9x - 6y = -6$$

 $-5x + 12y = 12$
11) $3x + 3y = -9$
 $4x - 12y = 20$

12)
$$-10x + 7y = 8$$

 $-8x + 5y = 10$
13) $3x + 4y = 29$
 $-4x + 7y = -14$

Sketch the solution to each system of inequalities.



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