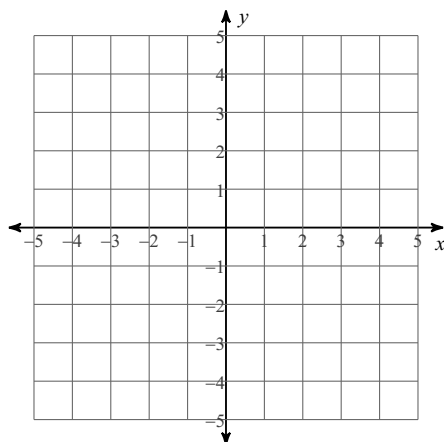


All Systems Review

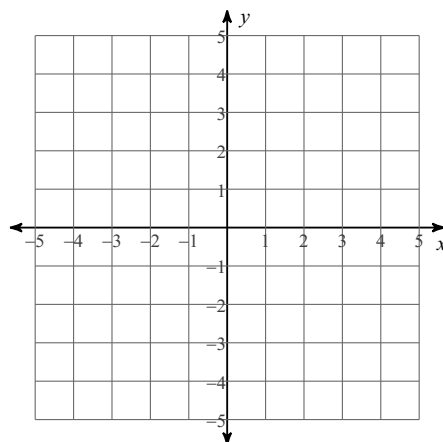
Date _____ Period _____

Solve each system by graphing.

1) $y = -3x + 4$
 $y = x - 4$



2) $y = -1$
 $2x - y = -1$

**Solve each system using the appropriate method. Show all your work.**

3) $y = x + 2$
 $-3x + 4y = 13$

4) $4x + 2y = -2$
 $y = -2x - 1$

5) $-9x - 5y = 13$
 $-3x - 9y = -3$

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

$$\begin{aligned} 7) \quad 10x - 5y &= 7 \\ -6x + 3y &= 0 \end{aligned}$$

$$\begin{aligned} 8) \quad -x - 3y &= 9 \\ 6x + 2y &= 10 \end{aligned}$$

- 9) Rob and Stefan each improved their yards by planting daylilies and ivy. They bought their supplies from the same store. Rob spent \$88 on 8 daylilies and 6 pots of ivy. Stefan spent \$68 on 4 daylilies and 6 pots of ivy. What is the cost of one daylily and the cost of one pot of ivy?
- 10) The senior classes at High School A and High School B planned separate trips to the local amusement park. The senior class at High School A rented and filled 12 vans and 1 bus with 168 students. High School B rented and filled 2 vans and 10 buses with 500 students. Every van had the same number of students in it as did the buses. Find the number of students in each van and in each bus.
- 11) John's school is selling tickets to a fall musical. On the first day of ticket sales the school sold 5 adult tickets and 11 student tickets for a total of \$85. The school took in \$50 on the second day by selling 5 adult tickets and 4 student tickets. Find the price of an adult ticket and the price of a student ticket.
- 12) Stephanie and Mofor are selling pies for a school fundraiser. Customers can buy blueberry pies and lemon meringue pies. Stephanie sold 1 blueberry pie and 10 lemon meringue pies for a total of \$186. Mofor sold 5 blueberry pies and 5 lemon meringue pies for a total of \$120. Find the cost each of one blueberry pie and one lemon meringue pie.

Answers to All Systems Review (ID: 1)

- 1) $(2, -2)$
- 2) $(-1, -1)$
- 3) $(5, 7)$
- 4) Infinite number of solutions
- 5) $(-2, 1)$
- 6) $(5, 6)$
- 7) No solution
- 8) $(3, -4)$
- 9) daylily: \$5, pot of ivy: \$8
- 10) Van: 10, Bus: 48
- 11) adult ticket: \$6, student ticket: \$5
- 12) blueberry pie: \$6, lemon meringue pie: \$18