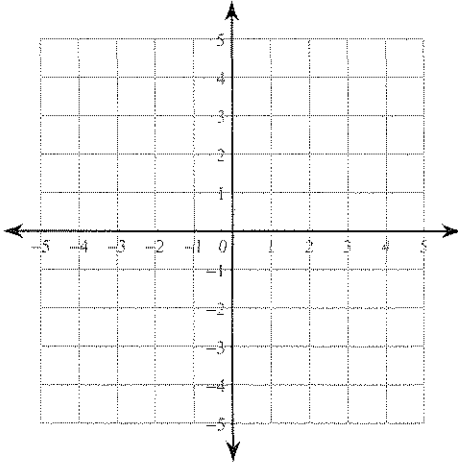


Unit 5 Review

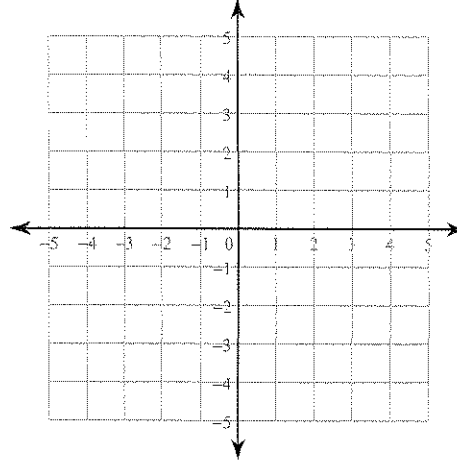
Solve each system

1) $y = \frac{1}{4}x - 4$

$y = -\frac{5}{4}x + 2$



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



Solve each system.

3) $8x + 6y = 23$
 $-8x - 6y = -22$

4) $8x + 4y = 24$
 $-2x + 4y = -26$

5) $2y = -6x + 18$
 $-54 + 3y = -36x$

6) $6x - 2y = 30$
 $9x + 7y = -15$

7) $x - 4y = 8$
 $-4x - 8y = 16$

8) $x + 4y = 9$
 $-2x - 8y = -18$

- 9) The indoor climbing gym 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 10 buses with 350 students. High School B rented and filled 5 vans and 13 buses with 437 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.
- 10) Beth and Ryan are selling cookie dough for a school fundraiser. Customers can buy packages of sugar cookie dough and packages of gingerbread cookie dough. Beth sold 5 packages of sugar cookie dough and 6 packages of gingerbread cookie dough for a total of \$78. Ryan sold 4 packages of sugar cookie dough and 1 package of gingerbread cookie dough for a total of \$32. What is the cost each of one package of sugar cookie dough and one package of gingerbread cookie dough?
- 11) Find the value of two numbers if their sum is 86 and their difference is 14.
- 12) Steve went to Best Buy to purchase video games and CDs. He purchased a total of 9 items for \$127. If video games cost \$15 each and CDs cost \$13 each, how many of each did he buy?