Algebra Name_____

Tri Final Review Systems of equations

Date_____ Period____

Solve each system by substitution.

1) $-7x + 4y = 2$
$y = 8x + 13$

2) $y = -5x - 16$
$4x + 8y = -20$

Solve each system by elimination.

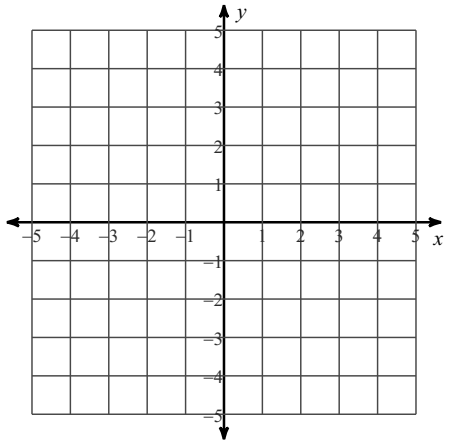
3) $6x - 3y = -27$
$-2x - 5y = -9$

4) $-4x - 3y = 1$
$-12x - 8y = 12$

Solve each system by graphing.

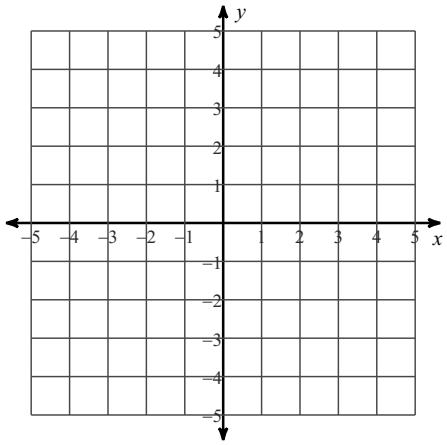
5) $y = x - 1$

$y = -\frac{1}{3}x + 3$



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

$x + 3y = 6$



7) Matt and Huong are selling cookie dough for a school fundraiser. Customers can buy packages of white chocolate chip cookie dough and packages of oatmeal cookie dough. Matt sold 7 packages of white chocolate chip cookie dough and 7 packages of oatmeal cookie dough for a total of $141.40. Huong sold 8 packages of white chocolate chip cookie dough and 14 packages of oatmeal cookie dough for a total of $227. What is the cost each of one package of white chocolate chip cookie dough and one package of oatmeal cookie dough?

8) The Campbell family had a rectangular garden with a 20 foot perimeter. They enlarged their garden to be twice as long and three feet wider than it was orginally. The enlarged garden has a 40 foot perimeter. What were the dimensions of the original garden?

Answers to Tri Final Review Systems of equations

1) $(-2, -3)$ 2) $(-3, -1)$ 3) $(-3, 3)$ 4) $(-7, 9)$
5) $(3, 2)$ 6) $(-3, 3)$
7) package of white chocolate chip cookie dough: \$9.30, package of oatmeal cookie dough: \$10.90
8) Width is 3 ft and length is 7 ft.