CC8   Name_____
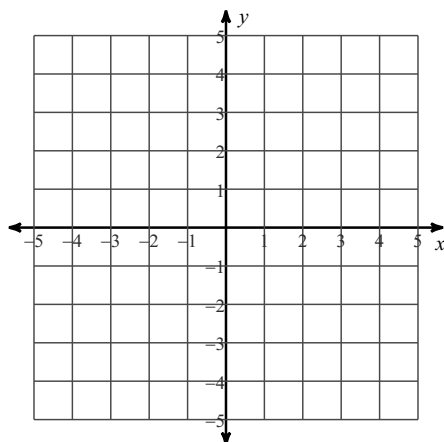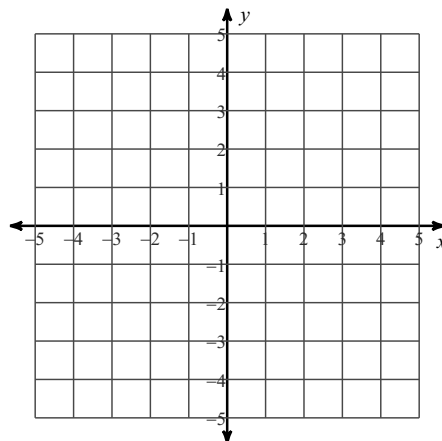
Solve Systems all methods

Date_____ Period____

Solve each system by graphing.

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

2) $y = -\dfrac{1}{3}x - 3$
   $y = x + 1$

Solve each system by substitution.

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

4) $x - 4y = 13$
   $-4x + 5y = 3$

Solve each system by elimination.

5) $-10x - 3y = 3$
$-4x - 12y = 12$

6) $-x + 3y = 2$
$-5x + 5y = 0$

7) The school that Darryl goes to is selling tickets to the annual dance competition. On the first day of ticket sales the school sold 13 senior citizen tickets and 4 child tickets for a total of $99. The school took in $72 on the second day by selling 14 senior citizen tickets and 2 child tickets. Find the price of a senior citizen ticket and the price of a child ticket.

8) Jenny and Adam are selling cheesecakes for a school fundraiser. Customers can buy French silk cheesecakes and apple cheesecakes. Jenny sold 14 French silk cheesecakes and 9 apple cheesecakes for a total of $192. Adam sold 7 French silk cheesecakes and 12 apple cheesecakes for a total of $186. What is the cost each of one French silk cheesecake and one apple cheesecake?

Answers to Solve Systems all methods

1) $(2, 4)$

2) $(-3, -2)$

3) $(-2, 4)$

4) $(-7, -5)$

5) $(0, -1)$

6) $(1, 1)$

7) senior citizen ticket: $3, child ticket: $15

8) French silk cheesecake: $6, apple cheesecake: $12