Math 10

Lesson 5-4 Answers

**Assignment**

1.

a)

i) 1

ii) –1

iii) 1

iv) –1

b) i and iii, and ii and iv are parallel

c) i intersects with ii and iv, iii intersects with ii and iv

2.

a) A and C or B and C have one solution since they intersect.

b) Since A and B are parallel, they would have no solutions.

3.

a)  

 The solution is *x* = –10 and *y* = 8.

b)  

 The lines are coincident, therefore there are an infinite number of solutions.

c)  

 The lines are parallel, therefore no solutions are possible.

d)  

 The lines are parallel, therefore no solutions are possible.

4. Let *x* be the number of wins and *y* be the number of losses.

 

 The number of overtime wins was 50 and the number of overtime losses was 7.

5.

 

 The values of *x* and *y* are 8.75 and 11.75 respectively.

6. Nadine has a cup of nickels and a cup of dimes. The total number of coins is 300 and their value is $23.25. How many coins are in each cup?

 Let *n* be the number of nickels and *d* be the number of dimes.

 

 There are 165 dimes and 135 nickels.

7. Let *S* be the money in savings and *C* be the money in chequing.

 

From the information given it is not possible to determine the amount in each account.

8. Let *x* be the number of people on Saturday and *y* the number of people on Sunday.

 

 The attendance for Saturday was 306 and for Sunday was 262.

9. Let *x* be the mass of the large container and *y* be the mass of the small container.

 

From the information given it is not possible to determine the mass of each container.

10. Let *a* be the number of adults and *s* the number of students.

 

 There were 25 adults and 50 students.