Section 7.2

#8 – Solve each system by graphing.

Y=x-3

Y=-x+1

#12

Y=-3x

X+y = 2

#42 – Solve each system by substitution. Determine whether the equations are independent, dependent, or inconsistent.

Y = x+4

3y – 5x = 6

#66 – Solve each system by the substitution method.

3x-6y = 5

2y = 4x – 6

#80 – Write a system of two equations in two unknowns for each problem. Solve each system by substitution.

* Rectangular notepad. The length of a rectangular notepad is 2 cm longer than twice the width. If the perimeter is 34cm, then what are the length and width?

#84 – Sum and difference. The sum of two numbers is 51 and their difference is 26. Find the numbers.

#88 – Annual Concert – A total of 150 tickets were sold for the annual concert to students and nonstudents. Student tickets were $5 and nonstudent tickets were $8. If the total revenue for the concert was $930, then how many tickets of each type were sold?

#90 – Soccer Game. There were 1000 more students at the soccer game than nonstudents for the annual play. Student tickets were $6 and nonstudent tickets were $11. If the total revenue for the play was $1540, then how many tickets of each type were sold?

Section 7.2

#22 – Solve each system by addition.

2x = 2-y

3x+y = -1

#28 – Solve each system by the addition method. Determine whether the equations are independent, dependent, or inconsistent.

4x + 3y = 2

-12x – 9y = -6

#32 – Solve each system by the addition method.

3x /2 – 2y/3 = 10

½ x + ½ y = -1

#42

X – y = 200

0.20x + 0.06y = 150

#72 – Write a system of two equations in two unknowns for each problem. Solve each system by the method of your choice.

* Books and magazines. At Gwen’s garage sale, all books were one price, and all magazines were another price. Harriett bought four books and three magazines for $1.45, and June bought two books and five magazines for $1.25. What was the price of a book and what was the price of a magazine?

#74

* Girls and Boys. There are 385 surfers in Surf City. Two-thirds of the boys are surfers and one-twelfth of the girls are surfers. If there are two girls for every boy, then how many boys and how many girls are there in Surf City?

#80

* Empire State. Spike averaged 45mph driving from Rochester to Syracuse and 49mph driving from Syracuse to Albany. If he drove a total of 237 miles in 5 hours, then how far is it from Syracuse to Albany?

Team Assignment

#18 – Solve by addition.

7x – 4y = -3

X + 2y = 3

#20

3x + 4y = -5

5x + 6y = -7

#22

2x = 2 – y

3x + y = -1

#24

X + y = 13

22x + 36y = 356

#36

3/7 x + 5/9 y = 27

1/9 x + 2/7 y = 7

#38

2/3 x + 5/6 y = ¼

1/5 x – 1/10 y = -1/10

#40

0.1x + 0.06y = 9

0.09x + 0.5y = 52.7