Round Table Review – Section 7-1

Solve each system of equations using graphing. Write **no solution** or **infinitely many solutions** if appropriate. Use the graphs provided.

1) $y = 3x - 1$
   $y = -2x + 4$
   (1, 2)

2) $y = \frac{3}{4}x + 2$
   $\frac{3}{4}x - y = 4$
   no solution

3) $y = 4x + 7$
   $y = -3x$
   (-1, 3)

Round Table Review – Section 7-2

Solve each system of equations using substitution. Write **no solution** or **infinitely many solutions** if appropriate.

1) $y = x + 4$
   $y = 3x$
   (2, 6)

2) $y = 2x + 7$
   $y = 5x + 4$
   (1, 9)

3) $4x + 3y = -3$
   $2x + y = -1$
   (0, -1)

Round Table Review – Section 7-3

Solve each system of equations using elimination. Write **no solution** or **infinitely many solutions** if appropriate.

1) $2x + y = 3$
   $-2x + y = 1$
   $\left(\frac{1}{2}, 2\right)$

2) $8x - 9y = 19$
   $4x + y = -7$
   (-1, -3)

3) $5x + 7y = -1$
   $4x - 2y = 22$
   (4, -3)

Round Table Review – Story Problems

Write a system of equations for each situation. Solve using any method. Make a table to help you organize the information.

1) Mrs. Hussain is giving a test with 40 questions. Some of the questions are worth 2 points and some of the questions are worth 4 points. The total is 100 points. Write and solve a system of equations to find how many of each type of question are on the test. **30 2-point questions   10 4-point questions**

2) Ali and Sam are investing $1500 in equipment to put pictures on T-shirts. It costs them $3.00 for each T-shirt. After they put a picture on each shirt, they will sell them for $20 each. How many T-shirst must Ali and Sam sell to break even? **89 T-shirts**