Module 5 – Systems of Linear Equations and Inequalities
Lesson 3 – Systems of Linear Equations in Two Variables

Name _____

Fill in the blanks.

1. The three methods for solving a system of linear equations are the _____,

   _____, and _____ methods.

2. The system with parallel lines and no solution is called an _____ system.

3. If two lines are exactly the same, the system is called a _____ system and

   has _____ number of solutions.

4. A system with one solution and graphs that intersect is called a _____

   system.

Find the solution of each system using the graphical method.

1. $\begin{cases} x-5y=5 \\ x-2y=-4 \end{cases}$

2. $\begin{cases} 2x+y=4 \\ 3x+y=-6 \end{cases}$

Find the solution of each system using the elimination method.

1. $\begin{cases} 5x+2y=-1 \\ 2x-y=5 \end{cases}$

2. $\begin{cases} 6x+y=3 \\ x-5y=-15 \end{cases}$

Find the solution of each system using the substitution method.

1. $\begin{cases} 3x+2y=7 \\ y=x+1 \end{cases}$

2. $\begin{cases} x-2y=7 \\ 3x+4y=11 \end{cases}$