Simultaneous Equations – Elimination Method

Level – Near Genius

1.   Solve these systems of equations using the elimination method. Check your answers.

a. $x + y = 5$
       $-x + 2y = 1$

b. $4x - y = 9$
       $2x + y = 3$

c. $3x + 4y = 7$
       $-3x - y = -13$

d. $3x - 2y = 3$
       $-4x + 2y = -2$

Level – Genius

2.   Solve these systems of equations using the elimination method.   Check your answers.

a. $x + 3y = 9$
       $-2x + 2y = -2$

b. $3x - 2y = 4$
       $2x + y = 12$

c. $3x + 2y = 9$
       $x - 3y = -19$

d. $2x - y = -6$
       $-4x + 2y = 12$

Level - SuperGenius

3.   Solve this system of equations using the elimination method.

       $4x - 2y = -38$
       $2x + 3y = 1$

Level – MegaGenius

4.   Solve this system of equations using the elimination method.

HINT: Start by multiplying Equation 1 by 3 and Equation 2 by 2.

       $2x - 3y = -4$
       $-3x + 5y = 7$