

* **4-71.** Solve these systems of equations using any method. Check each solution, if possible.
  1. 2*x* + 3*y* = 9  
     −3*x* + 3*y* = −6

*c. y* = *-1/2x* + 7  
*y* = *x* − 8

**4-72.** For each line below, make a table and graph. What do you notice?

* 1. *y* = *2/3x*− 1
  2. 2*x* − 3*y* = 3



**4-73.** Find all possible values for *x* in each equation.

* 1. http://textbooks.cpm.org/images/cca/chap04/cca_ch4_less_4.2.4_4-73a.gif
  2. http://textbooks.cpm.org/images/cca/chap04/cca_ch4_less_4.2.4_4-73b.gif
  3. http://textbooks.cpm.org/images/cca/chap04/cca_ch4_less_4.2.4_4-73c.gif
  4. http://textbooks.cpm.org/images/cca/chap04/cca_ch4_less_4.2.4_4-73d.gif

**4-74.** Aimee thinks the solution to the system below is (−4, −6). Eric thinks the solution is (8, 2). Who is correct? Explain your reasoning.

2*x* − 3*y* = 10

6*y* = 4*x* − 20

**4-75.** Figure 3 of a tile pattern has 11 tiles, while Figure 4 has 13 tiles.  If the tile pattern grows at a constant rate, how many tiles will Figure 50 have?

**4-76.** Solve each equation for the indicated variable.

* 1. *y = mx + b*(for *b*)

*c. I = prt*(for *t*)