**CLOSURE QUESTIONS UNIT 4.2 REVIW**

**http://textbooks.cpm.org/images/cca/chap04/cca_ch4_less_clos_4-116.pngCL 4-116.** Solve the system of equations shown at right.

* 1. Describe what happened when you tried to solve the system.
  2. Graph the system of equations.  How does the graph of the system explain what happened with the equations?



**CL 4-118.**Solve these systems of equations using any method.

a. *y* = 3*x + 7 b.* 3*x* − *y* = 17 c. *x* = 3*y* − 5  
 *y* = −4*x* + 21 −*x* + *y* = −7 2*x +*12*y =*−4

**CL 4-119.** Bob climbed down a ladder from his roof, while Roy climbed up another ladder next to him.  Each ladder had 30 rungs.  Their friend Jill recorded the following information about Bob and Roy:

Bob went down 2 rungs every second.

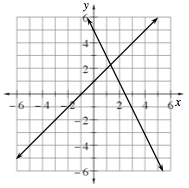
Roy went up 1 rung every second.

At some point, Bob and Roy were at the same height.  Which rung were they on?

**CL 4-120.** Solve for *x*.

* 1. 6*x* − 11 = 4*x +*12 b. 2(3*x* −5) = 6*x* – 4

c. (*x* − 3)(*x* + 4) = *x*2 + 4 d. http://textbooks.cpm.org/images/cca/chap04/cca_ch4_less_clos_4-120d.gif

**CL 4-122.** Leo solved a system of equations by graphing and the graph is shown at right.

* 1. Estimate the solution from the graph.
  2. What is the equation of each line in the system?
  3. Solve the system algebraically.  How accurate was your estimate?

**CL 4-125.**Rewrite each expression below as a product and as a sum.

a. (*x* + 7)(2*x* − 5) b. 5*x*(*y* − 7) c.(3*x*− 7)(*x*2 − 2*x* + 11)