## Section 9.3 Extra Practice Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 **1.** Solve each system of linear equations using **substitution.** Verify your answers graphically.

a) *y* = –4*x* + 5 b) 5*x* + 2*y* = 0

 *y* = 2*x* – 4 4*x* + *y* = 6

 **2.** Solve each system of linear equations using **elimination.** Verify your answers by substituting into the original equations.

a) 2*x* + 3*y* = –7 b) 4*x* – 5*y* = 15

 *x* – 3*y* = 1 7*x* = 6*y* + 7

**3.** Cashew nuts are sold at $15.00/kg. Walnuts are sold at $12.00/kg. What quantities of each nut would a store owner put into a 100‑kg barrel so that it could be sold for $13.20/kg?

**4.** Solve each system of linear equations whichever way you would like.

a) 12*x* + 10*y* = 0 b)2*x* + 3*y* = –7

–6*x* + 5*y* = 2 *x* – 3*y* = 1

**5.** To see a play, 4 adults and 11 children paid $148. The next night, 7 adults and
13 children paid $209. What is the cost for one child? What is the cost for one adult?

 **6.** A father is four times as old as his daughter. Five years ago, he was seven times as old as his daughter. Find the present ages of the father and the daughter.