## 7.3 Practice A

Solve each system by elimination. Check Algebraically.

- 1) 3x 5y = -23
- Findy: -8(-1)+57=28 \$+57=28 -8-12-8

- - 3) The school that Jennifer goes to is selling tickets to the annual dance competition. On the first day of ticket sales the school sold 1 senior citizen ticket and 4 child tickets for a total of \$45. The school took in \$35 on the second day by selling 1 senior citizen ticket and 3 child tickets. What is the price each of one senior citizen ticket and one child ticket?
    - DAY1 I SENIOL TIX, 4 KID TIX, EARNED \$45 DAY2 1 SENIOLTIX, 3 KIDTIX, EARNED \$35
    - X = \$/SENTIOR TIX Y = \$ / KID TIX
    - DAY1: X + 4Y = 45  $\longrightarrow$  X +
- Cost of SENIOR TICKET IS \$5 AND CHILD TICKET IS \$10

4) DeShawn and Jack are selling fruit for a school fundraiser. Customers can buy small boxes of oranges and large boxes of oranges. DeShawn sold 10 small boxes of oranges and 8 large boxes of oranges for a total of \$186. Jack sold 10 small boxes of oranges and 5 large boxes of oranges for a total of \$135. What is the cost each of one small box of oranges and one large box of oranges?

KI: Deshown sold losmelloranges, 8 large, earned \$186 Jack sold losmell boxes oranges, 5 large, earned \$135

X = \$'s/small boxof oranges Y= \$'s/lorge box of oranges

Deshewn: 10x + 8y = 186  $\longrightarrow 10x + 8y = 186$ Tack:  $(10x + 5y = 135)x_{11} \longrightarrow -10x - 5y = -135$  x = 51 x = 51 x = 51

FINDX: 10X + 8(17) = 186 10X + 136 = 186 -136 - 136 10X = 50 1X = 5

Box of small oranges Cost \$5 and Cost of large box oranges cost \$17