9.1-9.3 review

Solve the following using any method you like:
1.  2.  3. 

4.  5.  6. 

7.  8.  9. 

10.  11.  12. 

13. The school that Jessica goes to is selling tickets to the spring musical. On the first day of ticket sales the school sold 8 adult tickets and 1 child ticket for a total of $130. The school took in $105 on the second day by selling 1 adult ticket and 9 child tickets. Find the price of an adult ticket and the price of a child ticket.

14. Joes school is selling tickets to the annual dance competition. On the first day of ticket sales the school sold 6 senior citizen tickets and 4 student tickets for a total of $108. The school took in $116 on the second day by selling 2 senior citizen tickets and 8 student tickets. Find the price of one senior citizen tickets and one student ticket.

15. A firm has a weekly fixed cost of $80,000 associated with the manufacture of dresses that cost $25 per dress to produce. The firm sells the dresses for $95 a piece.

a. Find the cost equation for the firm if *x* is the number of dresses produced a week.
b. Find the revenue equation for the firm if *x* is the number of dresses produced a week.
c. Find the break even point.
d. How many dresses must they make and sell in a week if they want a profit of $15,000 for the week?

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