

3. An auto manufacturer sends cars from two plants, I and II, to dealerships A and B located in a Midwestern city. Plant I has a total of 28 cars to send, and plant II has 8. Dealer A needs 20 cars, and dealer B needs 16. Transportation costs per car, based on the distance of each dealership from each plant, are \$220 from I to A, \$300 from I to B, \$400 from II to A, \$180 from II to B. The manufacturer wants to limit transportation costs to \$10,640. How many cars should be sent from each plant to each of the two dealerships? (Assign variables to the 4 unknowns. Write a system of 5 equations with the 4 variables. Not all equations will involve all 4 variables)

4. *Supply and Demand* For a certain commodity, the demand equation is given by $D = -3p + 20$. At a price of \$1, four units of the commodity are supplied. If the supply equation is linear and the market price is \$4, find the supply equation.

DON'T FORGET THE REVIEW ASSIGNMENT IN THE BOOK:
PAGE 127, # 1 – 41 EOO, 45, 47