HW - LINEAR PROGRAMMING CONTINUED Name:	
1. Katie is a sales representative whose territory is Alaska and Nebraska. Her daily travel expenses average \$120 in Alaska and \$100 in Nebraska. She receives an annual travel allowance of at most \$18,000. She must spend at least 50 days in Alaska. She must spend at least 60 days in Nebraska. If sales average \$3000 per day in Alaska and \$2800 per day in Nebraska, how many days should she spend in each state to maximize sales?	
et x=# days in Alaska et y=# days in Nelovaska Y=50 y=60	
= 3000 X+2800 Y	
(50,60) (50,120) (100,60)	7
Should spend 50 days in Alaska & 120 days in Nebras	F
2. The CHICKEN 63.8 radio station has advertising time to sell. You want to advertise a sale at your candy store. In the morning, a 60 second ad costs \$200. In the evening, a 60 second ad costs \$50. Your candy store has at most \$2250 to spend. You will run at most 20 ads. A morning ad will be heard by 90,000 people, and an evening ad will be heard by 30,000 people. You want your ads to reach the most listeners.	

30,000 people. You want your ads to reach the most listeners.

