

LP model:



Using the LINDO output on the next page, answer each of the following:

1. Give the range of optimality for each coefficient.
2. Give the range of feasibility for each constraint.
3. Will the optimal solution change if:
	1. The profit contribution for each EZ-Rider is changed to 3400?
	2. The profit contribution for each EZ-Rider is changed to 1400?
	3. The profit contribution for each Lady-Sport is changed to 4000?
	4. The profit contribution for each Lady-Sport is changed to 1500?
4. Will the optimal solution change if:
	1. The profit contribution for each EZ-Rider is changed to 3000 and the profit contribution for each Lady-Sport is changed to 2200 simultaneously?
	2. The profit contribution for each EZ-Rider is changed to 3300 and the profit contribution for each Lady-Sport is changed to 1600 simultaneously?
5. What will be the new maximum profit if:
	1. 100 hours of available assembly time is added?
	2. The maximum number of Lady-Sport motorcycles is increased to 5000?
	3. 100 hours of available engine time is added?
6. What will be the new maximum profit if:
	1. 180 hours of engine time and 200 hours of assembly time are reduced simultaneously?
	2. 120 hours of engine time and 150 hours of assembly time are reduced simultaneously?

