A company produces cars in Atlanta, Boston, Chicago, and Los Angeles. The cars are then shipped

to warehouses in Memphis, Milwaukee, New York City, Denver, and San Francisco. The number of

cars available at each plant is given in Table 75.

Each warehouse needs to have available the number of cars given in Table 76.

The distance (in miles) between the cities is given in Table 77.

**a** Assuming that the cost (in dollars) of shipping a car equals the distance between two cities,

determine an optimal shipping schedule.

**b** Assuming that the cost (in dollars) of shipping a car equals the square root of the distance

between two cities, determine an optimal shipping schedule.





