Dersin Temel Konusu: *Gerçekte yapılası zor olanı basite indirgeme yetkinliği*

Örnek Problem Çözümü

1.3. Locating a Distribution Center Northeast Parts Supply is a wholesale distributor of components for printers, fax machines, scanners, and related equipment. Northeast stocks expensive spare parts, which dealers prefer not to hold, and offers same-day delivery on any order. The firm now serves eight dealers in the New England area and wishes to locate its distribution facility at a central point. In particular, its dealers have each been assigned a location on an $x-y$ grid, and Northeast would like to find the best location for the distribution facility.

The eight dealers and their grid locations are shown in the following table:

Dealer	1	2	3	4	5	6	7	8
x-location	25	82	10	27	93	14	68	147
y-location	32	36	71	58	68	163	149	192

(a) Determine the location that minimizes the sum of the distances from the distribution facility to the dealers.

(b) Determine the location that minimizes the maximum distance from the distribution facility to any of the dealers.

Kitap Sayfa 18 – Exercise 1.3

Soru amacı : Satıcılarımın bulunduğu lokasyonlara minimum uzaklıkta depo kurmak.

Depo dan 1 noktasına uzaklık hesaplama = $\sqrt{(x_0 - x_1)^2 \ + \ (Y_0 - y_1)^2}$

Deponun konulması gereken koordinatlar : X : 47 Y : 76 (Excel sayfa 1)

Maksimum uzaklığı minimize edersek : X : 86 Y : 11   (Excel Sayfa 2)

En uzakta ki depom 105 km daha yakın olsun : X : 74 Y : 116 (Excel Sayfa 2 (2)