data1-2009 homework 7
least squares with constraints
assigned monday, 30 november
due thursday 10 december (turn in to mr. jeong, room 4108)

fit two lines simultaneously to the two data sets
(x constant, y observed) using equal weighting.
constrain the two fitted lines to be perpendicular.
do it by
   (a) substitution, and by
   (b) format LS / constraint method

1. x   y
    ----
     0   3.0
     1   5.2
     2   8.3
     3 10.5
     4 13.6
     5 15.9
     6 18.4

2. x   y
    ----
     4 15.0
     6 14.4
     8 13.4
    10 12.7
    12 12.2
    14 11.3
    16 10.3
    18   9.7
    20   8.8

homework 8
historical context of survey measurement and adjustment
assigned wednesday, 2 december,
due friday, 18 december

read "the great arc" by john keay

write a (~2 page) review of the book. include in your review
some aspect of the triangulation in 19th century india that
relates to the topics covered in this course in data adjustment.