HW #1, Due Feb 1, 11:59pm

Problem: Relationship between class attendance and student performance

By Anna Lukkarinen, Paula Koivukangas, Tomi Seppälä, Procedia, Social and Behavior Sciences, Vol. 228, pp.341-347, 2016 (please read lecture slides).

Data set is given:

Attendance =[7; 9; 9; 9; 9; 10; 10; 10; 10; 10; 11; 11; 12; 12;

12; 12; 13; 13; 14; 15; 15; 15; 15; 15; 15; 16; 16; 17; 17]

Score Points=[31;11;22;50;61;1;15;50;52;78;43;63;30;50;65;91;60;61;38;45;68;72;

83;90;50;53;78;82;88]

Answer the following three questions:

(1) Assume linear. Determine the regression line.
(2) Based on (1), if a student's attendance is 9, will he/she likely to pass the course? What about attendance=14? 40 points is considered to be pass.
(3) What is the minimum attendance to pass the class?