KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS DEPARTMENT OF PHYSICS LAB. POLICY

Term	: Second Semester 2007 – 2008 (072)
Course Title	: Phys 101: Lab 74 and 67
Schedule	: Lab: Sat. 2:10 p.m., and Tus: 10:00 a.m.
Instructor	: Dr. Ibraheem Nasser
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Office	: Building 6, Room 140
O.H.	: Posted in front of my office

- 1- <u>GRADES</u>: Out of 20 points: 10 for the Lab report, 5 for the quizzes (at the beginning of each lab. So, you have to read the lab report before coming to your lab.), and 5 for the final exam. Every class, you have to bring your physics notebook. Also, you have to have your own ruler, eraser, sharpener, pencil, and calculator.
- 2- <u>Attendance</u>: Attendance will be enforced and evaluated according to current university regulations. A DN grade will be given to any student reaches 3 absences in laboratory experiments without official excuses. <u>Any student in possession of an excuse for officially authorized absence must present this excuse to his instructor no later than one week following his resumption of class attendance</u>. No make-up without official excuse.
- 3- Old grade: the students that those who scored "F" or "WP" ONLY (not "DN") and repeating the course may carry their old grades provided it is equal to or greater than 12.0.
- 4- Physics Notebook: Bring it with you every class.

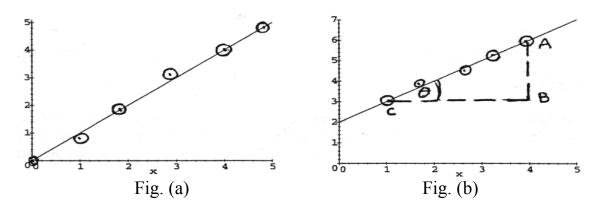
Lab report should have the following:

- 1- Title (in the middle) and the date of experiment on the right corner (1 point)
- 2- Objective (or objectives) (1 point)
- 3- Theory (in brief) (2 point)
- 4- Data (2 points)
- 5- Data analysis (3 points)
- 6- Conclusion, quote your experimental value. (1)

<u>GRAPHS</u>*: ■ The graph should have:

- (a) a title (b) both axes labeled (c) units on each axis
- (d) Scales used on each axis
- (e) Points plotted with \times or with dot and circle \odot .
- (*) The graph should cover all the graph paper.

Produce a best straight line (or smooth curve) which passes through most of the points (or leaves equal number of points on either side of the graph).



<u>GRADIENT or SLOPE</u>: ■ The gradient (or slope) of a line is the tangent of the angle which the line makes with the horizontal.

gradiant = $\tan \theta = \frac{\overline{AB}}{\overline{BC}} = \frac{\text{Vertical Length}}{\text{Horizontal Length}}$

- (*) Write the units used for \overline{AB} and \overline{BC} to get the unit of the gradient.
- (*) If the line slopes downwards to the right, the gradient is negative.