Course No: ENG1307	**University of Palestine**	**Instructor Name:** _____
Course Title: Physics II		**Student No.:** _____
Date: 30/03/2011		**Student Name:** _____
No. of Questions: (2)	**Mid term Exam**	**College Name:** _____
Time: 1 hour	**2ⁿᵈ semester 2010/2011**	**Dep. / Specialist:** _____
Using Calculator (Yes)	**Total Grade: 20**	**Using Dictionary (No)**

First Question

1. Define the Gauss Law.
2. Two charges are located on the positive x-axis of a coordinate system, as shown in figure below. Charge $q1=2\mu C$ is 2cm from the origin, and charge $q2=-3\mu C$ is 4cm from the origin. What is the total force exerted by these two charges on a charge $q3=5\mu C$ located at the origin?

Second Question

1. State Coulombs Law.
2. Find an expression for the electric potential at a point P located on the perpendicular central axis of a uniformly charged ring of radius a and total charge Q.

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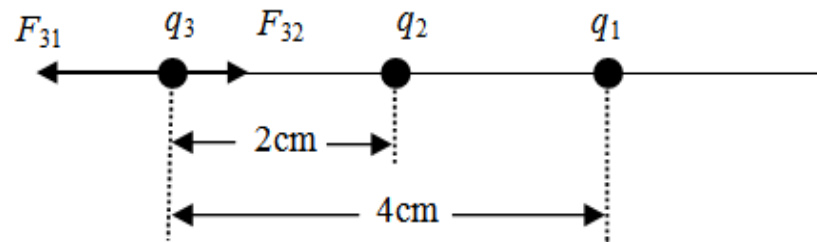**Using Calculator (Yes)**

University of Palestine

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End of Questions
Good Luck