بسم الله الرحمن الرحيم

King Fahd University of Petroleum and Minerals Department of Electrical Engineering

Semester I 2005/2006	EE303 Electronics II	Major (2)
	ATTEMPT ALL QUESTIONS	
	TIME ALLOWED 50 Minutes	

Q1. Assuming ideal operational amplifier, obtain an expression for the input impedance of the circuit shown in Fig. 1. Comment on your result showing what this circuit simulates.

Q2. The block diagram shown in Fig. 2 is a possible solution for designing an analog computer to solve differential equations. You are requested to design, using ideal operational amplifiers, the following:

1. a circuit that can perform the summation

2. a circuit that can perform the integration





Fig-2