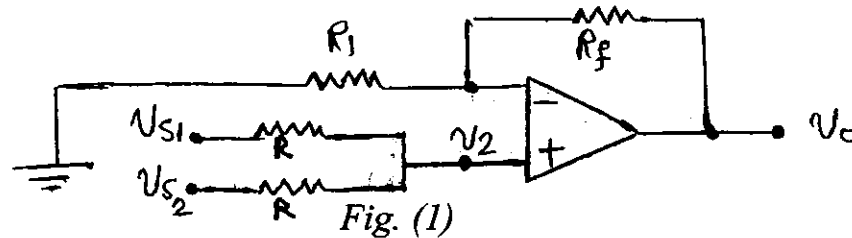


Final Examination
First Attempt
2013/2014

اقلب الورقة رجاءً

- Q5:** Find an expression for output voltage of the amplifier circuit shown in Fig. (1). Assume an ideal OP-Amp. What mathematical operation performed by this amplifier.



(12 marks)

- Q6:** What type of filter the following transfer function represent:

$$T.F = \frac{4S^2}{(S + 1.414 S + 1)^2}$$

Design it at center frequency ($\omega_c = 6000$ rad/sec) and bandwidth (B.W=1000 rad/sec).

(12 marks)