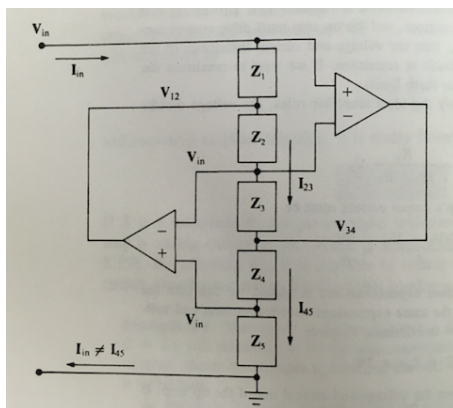Physics 271 Spring Term 2017

HOMEWORK 12

Available: April 6
Due: April 13, at the beginning of class.

Reading: Eggleston 8.1-8.7

Problem 1: For the gyrator circuit shown, show that the input impedance is given by $Z_{\text{in}} = \frac{Z_1 Z_3 Z_5}{Z_2 Z_4}$. Show also how this circuit can be used to simulate an inductor.

Text Problems:
Eggleston 8.1-8.4