

Chapter 5, Problem 41

An *averaging amplifier* is a summer that provides an output equal to the average of the inputs. By using proper input and feedback resistor values, one can get

$$-v_{out} = \frac{1}{4}(v_1 + v_2 + v_3 + v_4)$$

Using a feedback resistor of $10\text{ k}\Omega$, design an averaging amplifier with four inputs.