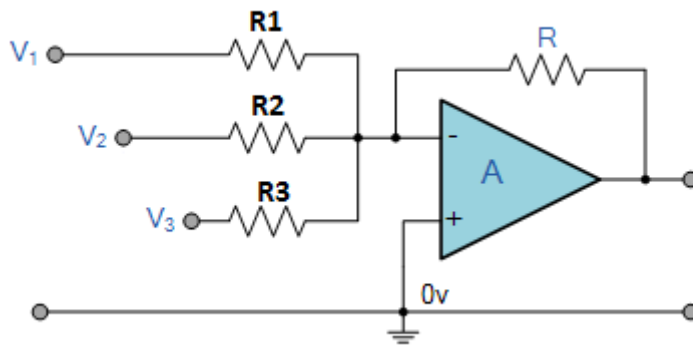# Answer to Question #69492, Physics / Electric Circuits

Question:

Design and draw the circuit of a three channel op-amp adder with channel gains of −5, −10 and −15 respectively.

Solution:

Basicaly a a three channel op-amp adder with channel diferent gains for each chanel is a scaling summing amplifier with a cirquit like this

Where

$$R1 = \frac{R}{5}$$

$$R2 = \frac{R}{10}$$

$$R3 = \frac{R}{15}$$