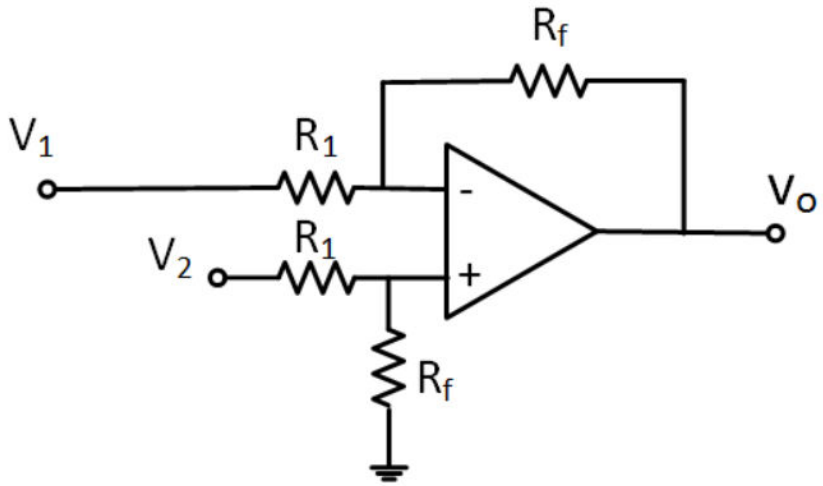
Problem 2.3.2



Given the above circuit, where:

- $R_1 = 5k\Omega$
- $R_f = 10k\Omega$
- $v_1 = 10V$
- $v_2 = 12V$

What is the value of v_o?

While

$$v_o = \frac{R_f}{R_1} \times (V_2 - V_1)$$

Therefore

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R1 = 5e3;
Rf = 10e3;
v1 = 10;
v2 = 12;
v_o = (Rf/R1)*(v2 - v1)
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v_o = 4
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$v_o = 4V$