



Foundation Batch

Analog Electronics

Day-11

> LIVE

2PM LAWRENCE Sir



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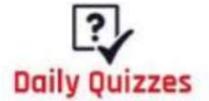
APP FEATURES











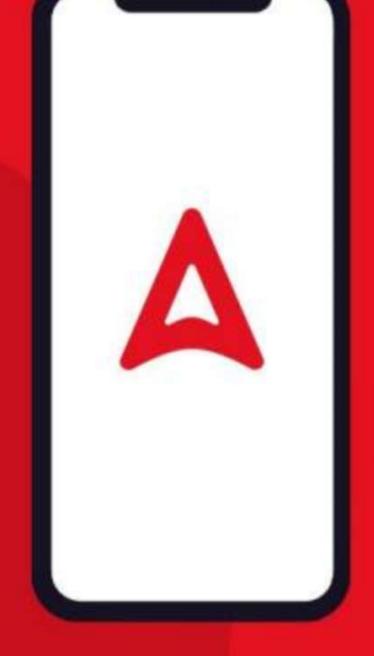












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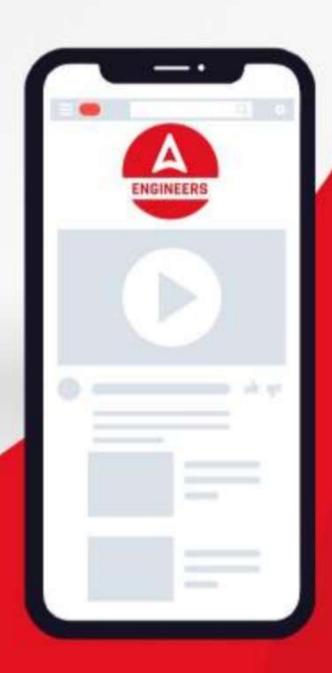
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Application of Op-Amp:

-> Summer:

-> Inverting Dummer

John-Inverting Bummer



Voltage - V=2v V2=5v

Inverting Summer (Gutput = - 7

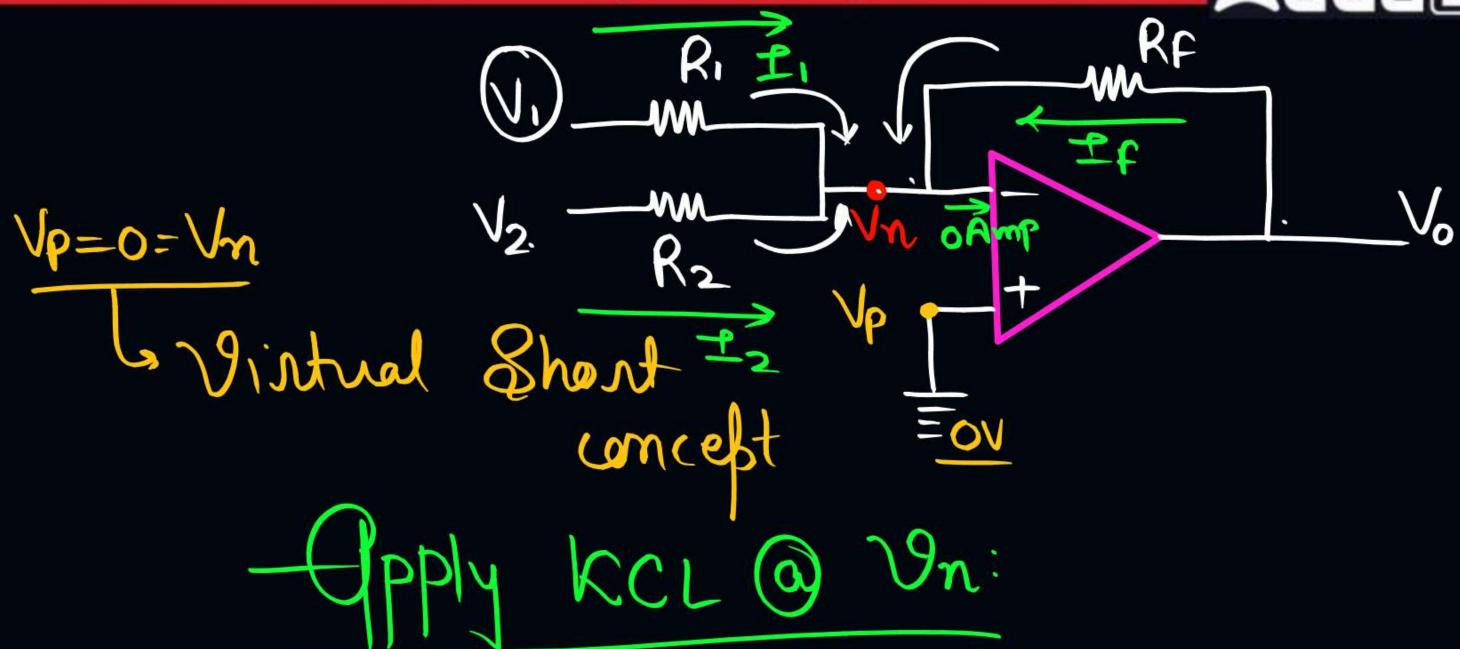
Non-Inverting Summer Output = 7



Investing Summer:

2 Input Investing Summer:







$$\frac{V_1 - V_n}{R_1} + \frac{V_2 - V_n}{R_2} + \frac{V_0 - V_n}{R_f} = 0$$

$$\frac{V_1}{R_1} + \frac{V_2}{R_2} + \frac{V_0}{RP} = 0$$



$$V_0 = \left(-\frac{Rr}{R_1}\right)V_1 + \left(-\frac{Rr}{R_2}\right)V_2$$

$$R_1 = R_2 = Rr = R$$



$$V_0 = -\frac{R}{R} \cdot V_1 + \left(-\frac{R}{R}\right) \cdot V_2$$

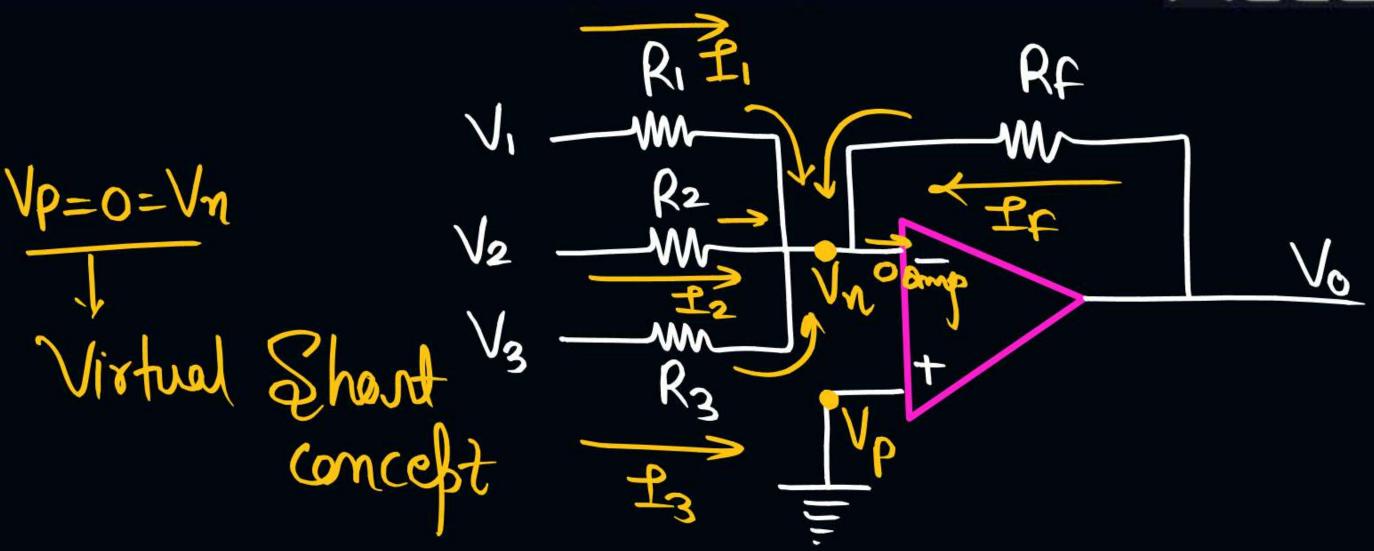
$$\left| \sqrt{0 - \left(\sqrt{1 + \sqrt{2} \right)} \right| \rightarrow$$





Ques: Design Phree input Inventing Summer and write the Condition for R1, R2, R3 and RF for Inverting Jummes?







$$\frac{V_1 - V_n}{R_1} + \frac{V_2 - V_n}{R_3} + \frac{V_3 - V_n}{R_4} + \frac{V_6 - V_n}{R_4} = 0$$



$$\frac{V_1}{R_1} + \frac{V_2}{R_2} + \frac{V_3}{R_3} + \frac{V_0}{R_F} = 0$$

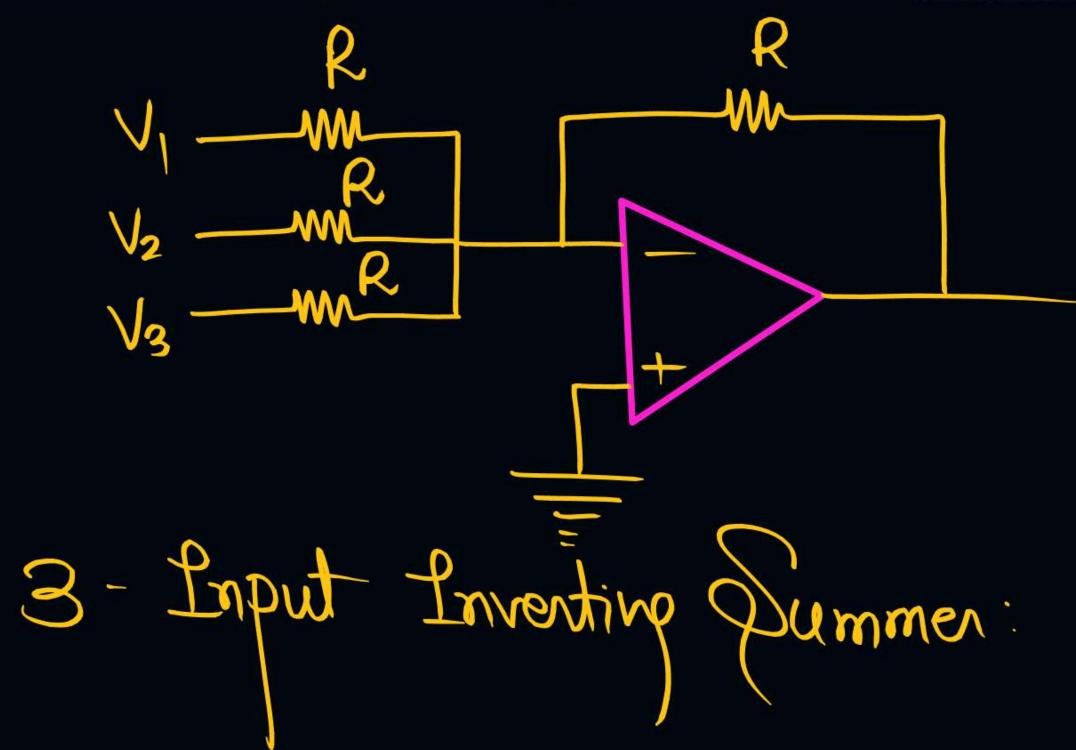
$$\frac{4}{R} \left(\frac{1}{R} \right) V_1 + \left(\frac{1}{R} \right) \frac{1}{R}$$



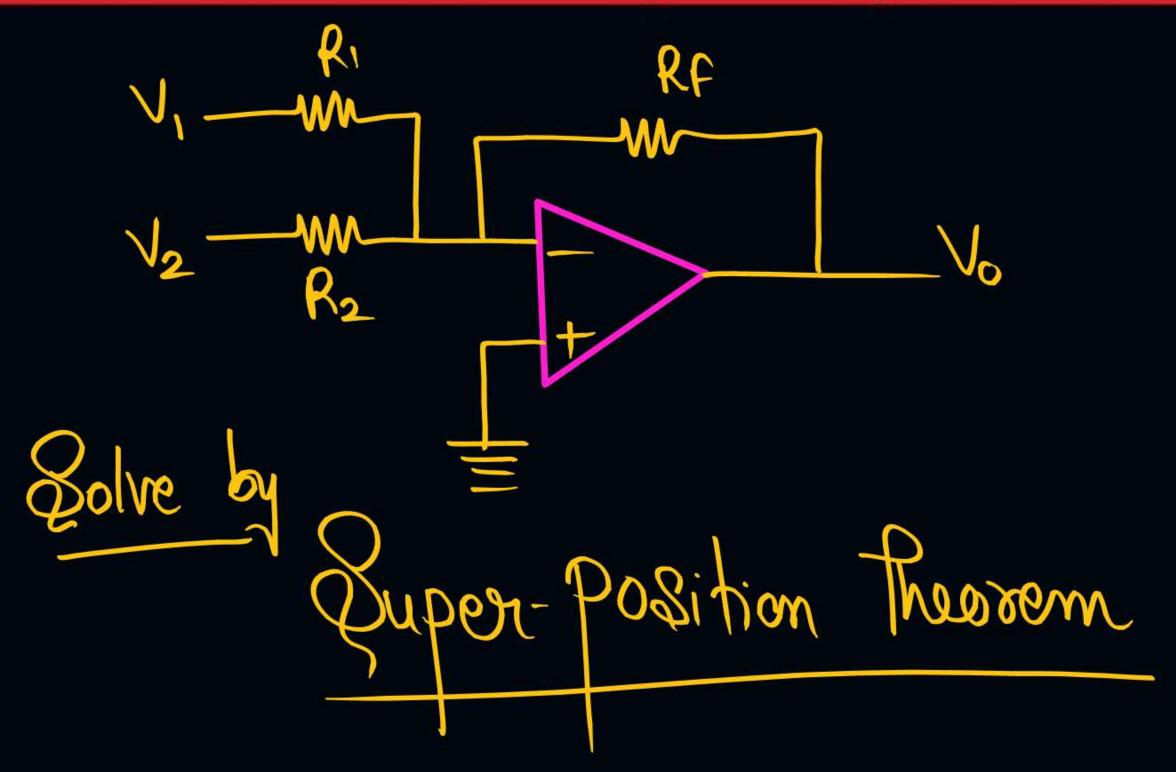
Condition for Summer:

$$Rf = R_1 = R_2 = R_3 = R$$





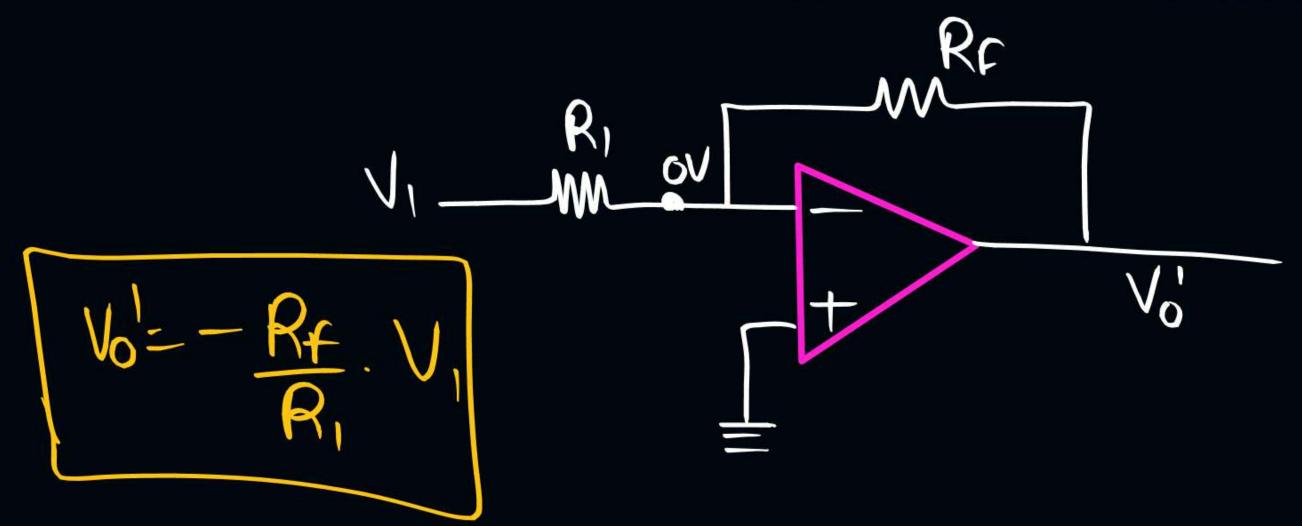






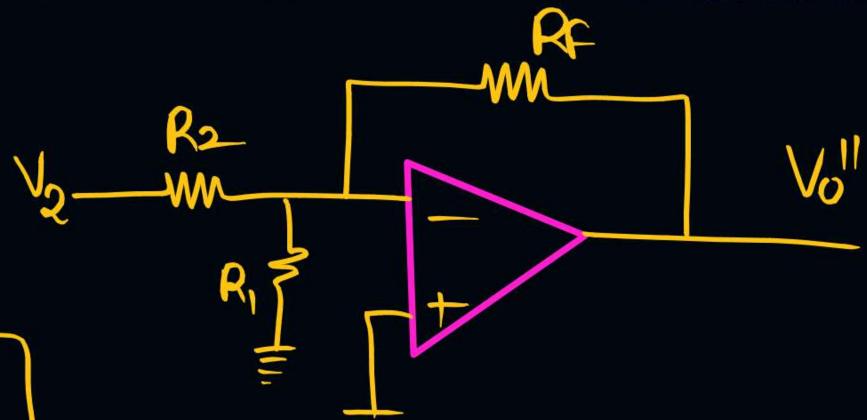








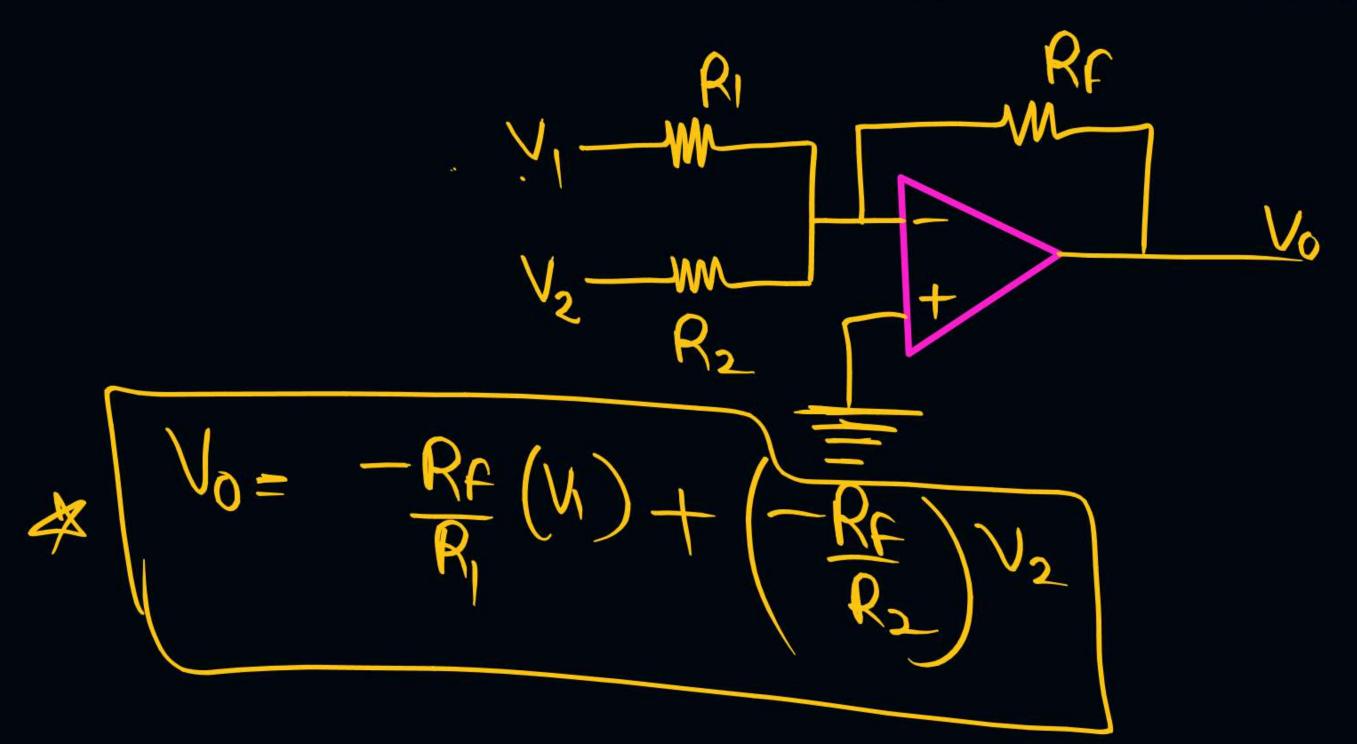






$$V_0 = -\frac{Rf}{R_1}V_1 + \left(-\frac{Rf}{R_2}\right)V_2$$

























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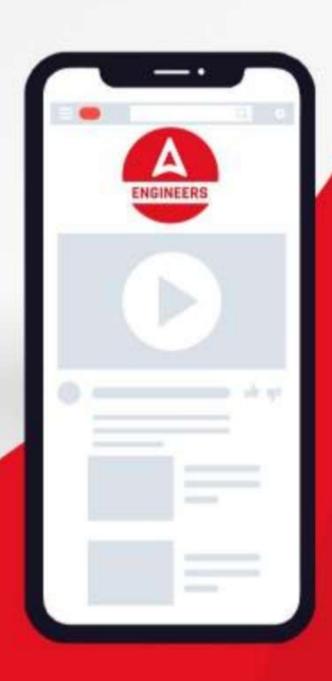
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