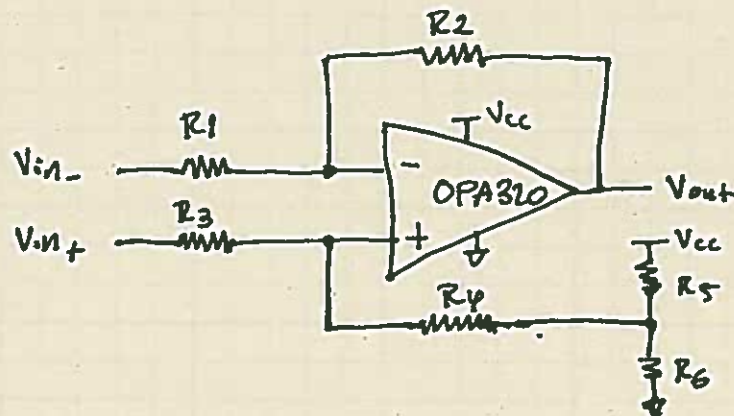
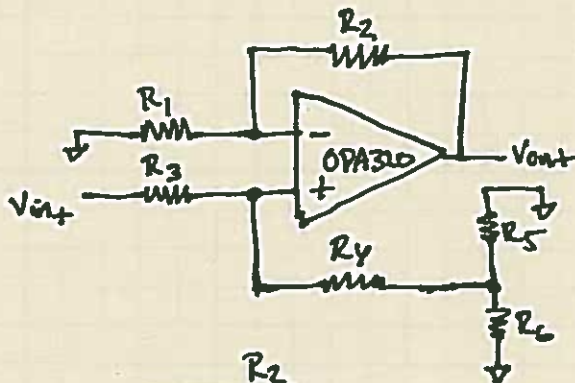
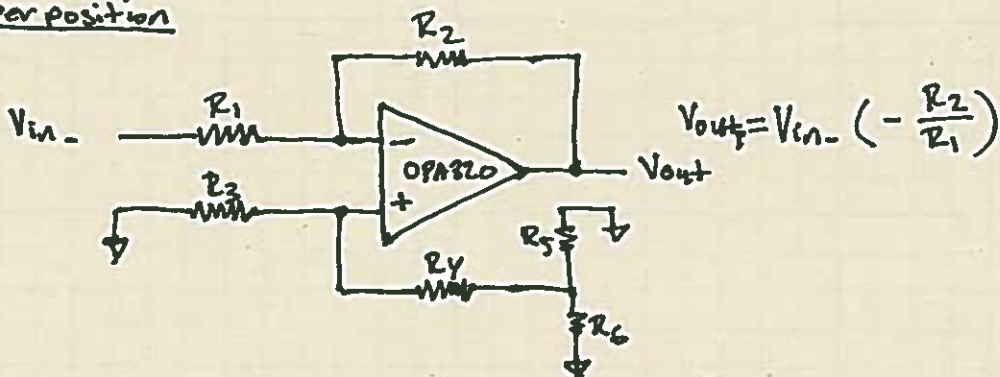
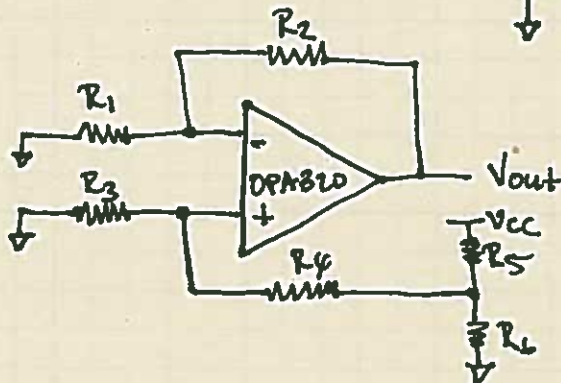




Super position



$$V_{out2} = V_{in+} \left( \frac{R_4 + R_5 // R_6}{R_3 + R_4 + R_5 // R_6} \right) \times \left( 1 + \frac{R_2}{R_1} \right)$$



$$V_{out3} = V_{cc} \left( \frac{R_6 // (R_4 + R_3)}{R_5 + R_6 // (R_4 + R_3)} \right) \times \left( \frac{R_3}{R_4 + R_3} \right) \times \left( 1 + \frac{R_2}{R_1} \right)$$

$$\begin{aligned} V_{out_{total}} &= V_{out1} + V_{out2} + V_{out3} \\ &= V_{in-} \left( -\frac{R_2}{R_1} \right) + V_{in+} \left( \frac{R_4 + (R_5 // R_6)}{R_3 + R_4 + (R_5 // R_6)} \right) \left( 1 + \frac{R_2}{R_1} \right) \\ &\quad + V_{cc} \left( \frac{R_6 // (R_4 + R_3)}{R_5 + R_6 // (R_4 + R_3)} \right) \left( \frac{R_3}{R_4 + R_3} \right) \left( 1 + \frac{R_2}{R_1} \right) \end{aligned}$$