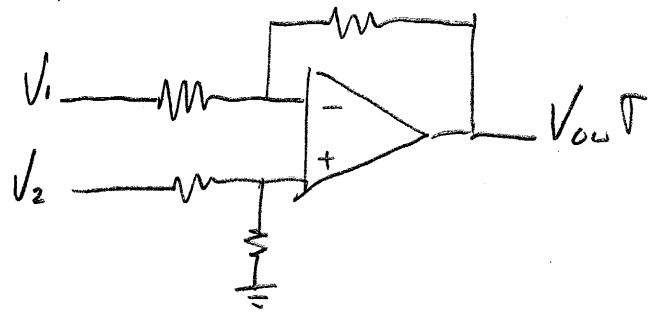
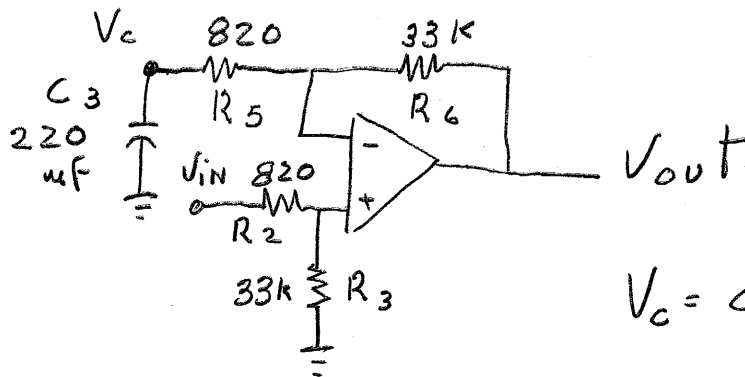


# Subtractor amplifier



Now with Honey Badger circuit values



$V_c$  = Capacitor noise

$$\frac{V_{out} \times 820 + V_c \times 33k}{33k + 820} = e^- = e^+ = \frac{V_{in} \times 33k}{33k + 820}$$

$$V_{out} \times 820 = V_{in} \times 33k - V_c \times 33k$$

$$V_{out} \times 820 = (V_{in} - V_c) \times 33k$$

$$V_{out} = \frac{33k}{820} \times V_{in} - V_c$$