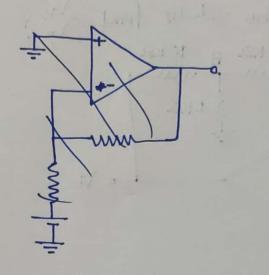
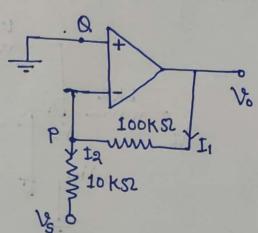
9.1: Considering Op-amp videal, find 1/2 ?





Sal! $V_p = V_Q = 0$ {: Ideal op-amp and negative feedback

$$I_1 = I_2$$

$$\frac{0 - \sqrt{s}}{10} = \frac{\sqrt{s} - 0}{100}$$

9.2: Find 1/8 if A = 10.

Sal:
$$V_0 = V_0 \cdot A$$

$$= (V_{NI} - V_I) \cdot A$$

$$= (0 - V_I) \cdot A$$

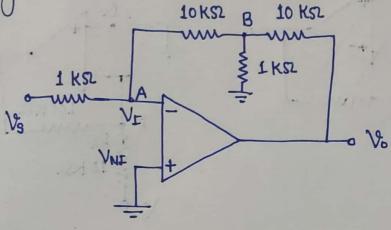
$$V_0 = -V_I \cdot A - Q$$

$$= -I_0 V_I - Q$$

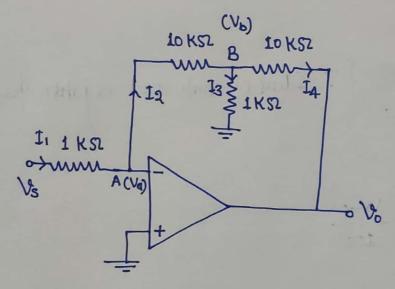
$$I_1 = I_2$$

$$\frac{V_0 - V_I}{loo} = \frac{V_I - V_S}{40} - Q$$

Q.3: Assuming the ob-amp to be videal, find to ?



Sal!



Abbly KCL at A
$$I_1 = I_2$$

$$\frac{V_8 - 0}{1} = \frac{0 - V_6}{10}$$

$$001 \quad V_0 = -10 \quad V_8 = 0$$

$$V_8 = -10 \quad V_8 = 0$$

Abby KCL at B

$$I_2 = I_3 + I_4$$

$$\frac{0 - V_b}{10} = \frac{V_{b-0}}{1} + \frac{V_{b} - V_{o}}{10}$$

$$V_o = 12 V_b$$
Forum (1)
$$V_o = -120 V_s$$

$$\frac{V_o}{V_s} = -120$$

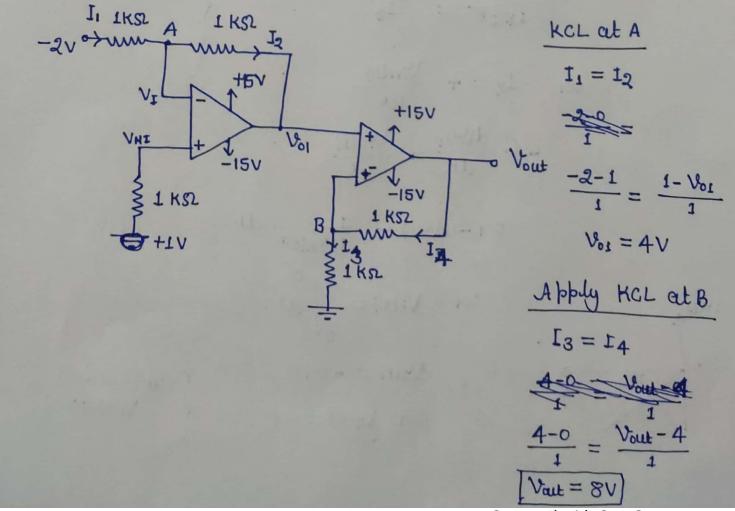
had dishit and I will dist

Q. 4: Assuming that op-amps are ideal. Find Vous?

-2V
-15V
+15V
-15V
1 KS2
1 KS2
1 KS2

1 KSZ

Sal:



Scanned with CamScanner

