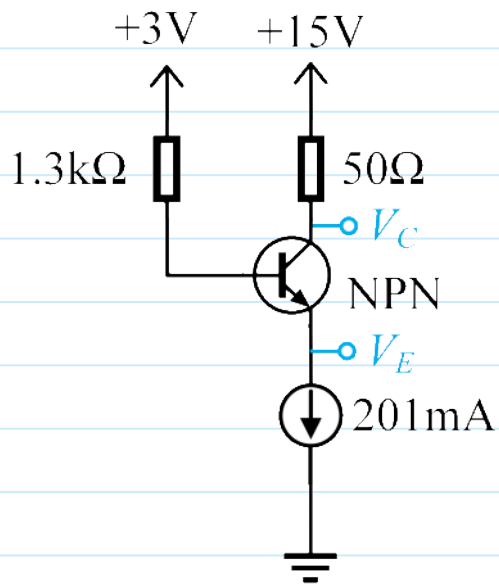


Q1



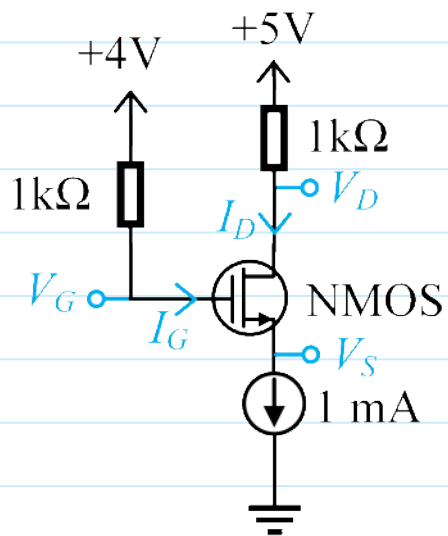
ACTIVE

$$\beta = 200$$

$$V_E = ? \text{ (1V)}$$

$$V_C = ? \text{ (5V)}$$

Q2



SATURATION

$$I_D = \frac{1}{2} k_n V_{OV}^2$$

$$V_{OV} > 0$$

$$V_T = 1 \text{ V}$$

$$k_n = 2 \text{ mA/V}^2$$

$$I_G = ? \text{ (0A)}$$

$$V_G = ? \text{ (4V)}$$

$$I_D = ? \text{ (1mA)}$$

$$V_D = ? \text{ (4V)}$$

$$V_{OV} = ? \text{ (1V)}$$

$$V_S = ? \text{ (2V)}$$