Special Problem 5.6-1

In the circuit below, Q_1 has $K_1 = 2$ mA/V^2 and $V_t = 2.0$ V.

But, Q_2 has $K_2 = 1$ mA/V^2 and $V_t = 2.0$ V.

In other words Q_1 and Q_2 are **not** identical!

1) **Determine R** so that the **drain current** of Q_1 is **8 mA**.

2) What then is the **drain voltage of Q_2** ?