

Answers to EEE210 Quiz #3 AY2015-2016

1. Set all DC sources to 0, replace all capacitors by short-circuits, replace the MOSFETs by their small signal AC models and redraw. Easy. Refer to notes.
2. (a) Voltage divider because gate current is 0. Easy.
(b) $I_D = 2 \text{ mA}$, $V_{GS} = 3 \text{ V}$, $V_{DS} = 7.8 \text{ V}$.
(c) $R_1 = 400 \text{ k}\Omega$, $R_2 = 133.33 \text{ k}\Omega$.