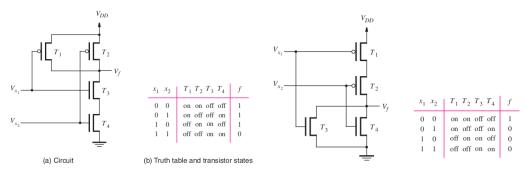
## CMOS circuit review

## Vikas Dhiman for ECE275

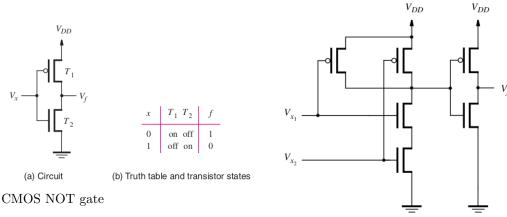
## October 24, 2022

## 1 CMOS gate review



CMOS NAND gate

CMOS NOR gate



**Example 1** Derive the CMOS complex gate that implements  $f = \overline{x_1x_2 + x_3x_4 + x_5}$ .

CMOS AND gate

**Problem 1** Derive the CMOS complex gate that implements  $f = \bar{x}_1\bar{x}_2x_3 + \bar{x}_1x_2\bar{x}_3 + x_1\bar{x}_2\bar{x}_3 + x_1x_2x_3$ .