

## CS 254 HW5

### Grading

- Due 2014-02-27 @ 2pm. (Right before class).
- Please send all submissions (both L<sup>A</sup>T<sub>E</sub>Xed and handwritten) to [cs254-win1314-hw@lists.stanford.edu](mailto:cs254-win1314-hw@lists.stanford.edu)

### representing $\vee$ exactly with polynomials

Let  $p$  be a polynomial such that  $\forall x \in \{0, 1\}^n : p(x) = \vee_{i=1}^n x_i$ . Prove:  $\deg(p) \geq n$ .