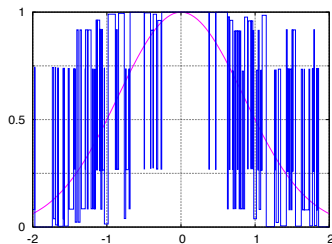
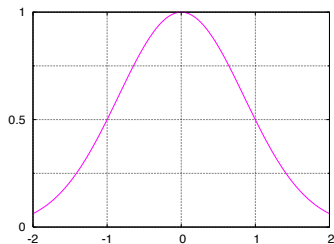


## A Synthetic Example

- $x \in [-2, +2]$  uniform
- $\Pr[y = +1|x] = 2^{-x^2}$
- $m = 500$  training examples



- if run AdaBoost with stumps and convert to probabilities,  
result is poor
  - extreme **overfitting**