The "accept-reject" method (AKA rejection sampling)

2-dimensional domain Given uniformly distributed May The the test of te y Ymer Goul output random blue block Naive rejection sampling algorithm. Repeat to rever: Pick rundom $X \in [X_{max}]$ $Y \in [Y_{max}]$ (pick from uniform on much bigger domain) If (X,y) is a blue block, output (X,y) thalt Analysis' output (xy) with prob #blue blocks = Xmax. Ymax Expected run time per output! fruction covered by blue blocks Hohe blocks



Example in class:

after bucketing nodes by degree,
within a bucket all nodes had degree

$$(1+\beta)^{i} \leq degree \leq (1+\beta)^{i+1}$$

So max degree $\leq (1+\beta)^{i+1}$
ave degree $\geq (1+\beta)^{i}$