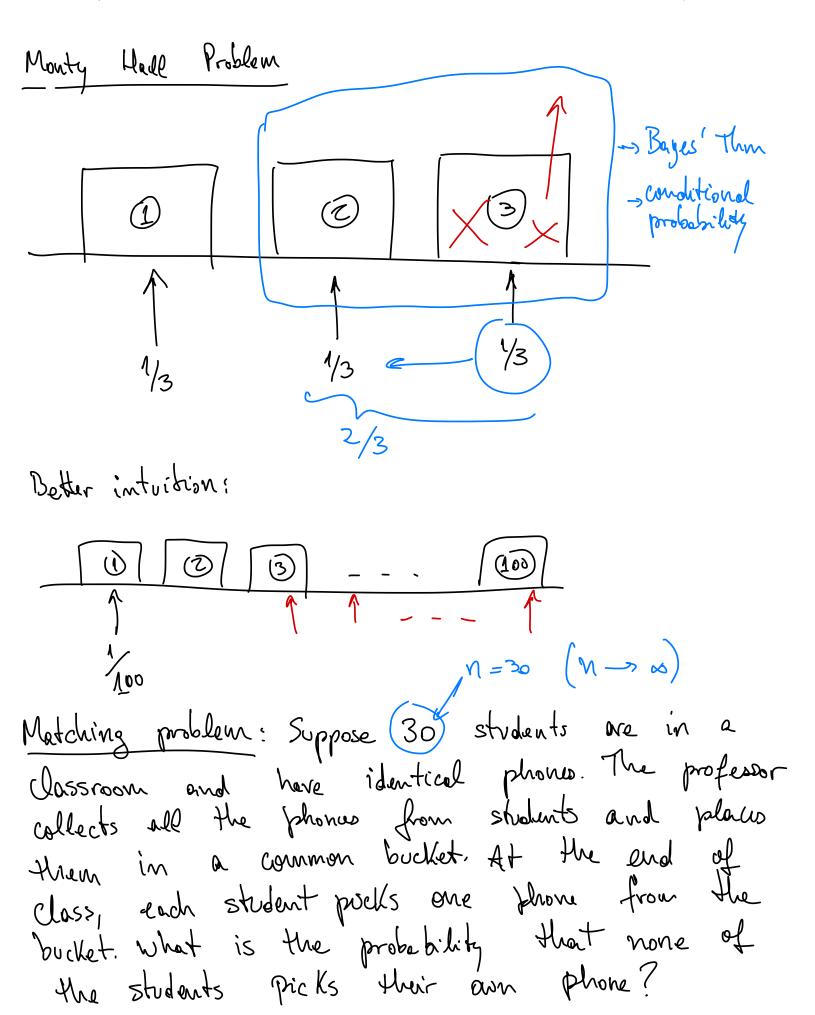
MAT 330/681



Answer:
$$p = \sum_{j=0}^{N} \frac{(-1)^{j}}{j!} \approx 36.7\%$$
 as $n \to \infty$
(Inclusion-exclusion)
principle
Bosic counting:
Q: Lehmon's cafeteria has the following buch options
 3 options 2 options
 $0f$ sides 2 options $3f$ options
 13 options 2 options
 14 where 16 options
 14 where 16 options
 $12 + 15 = 30$ choices.
More generally: Basic Principle of Contax.
More generally: Basic Principle of experiments
 $12 + 12 + 5 = 30$ choices.
More generally: Basic Principle of experiments
has a total experiments
 $12 + 12 + 5 = 30$ choices.
More generally: Basic Principle of Contax.
 $12 + 12 + 5 = 30$ choices.
 $13 + 12 + 5 = 30$ choices.
 $14 + 12 + 5 = 30$ choices
 $14 + 12 +$

