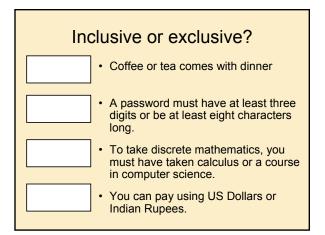
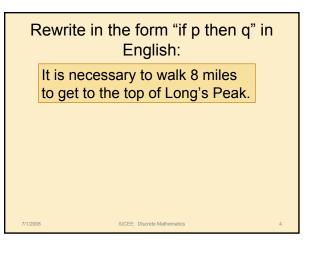
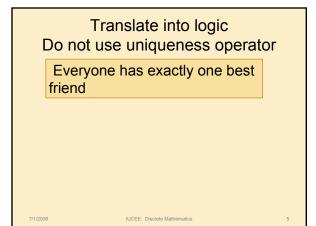
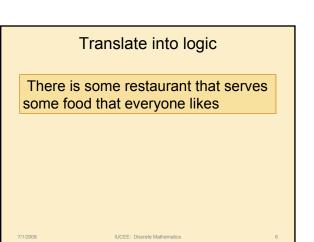


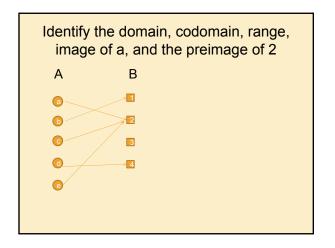
Draw a picture of yourself



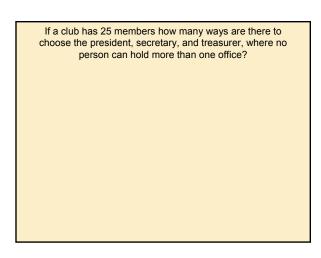








## How many zeros are there at the end of 100!

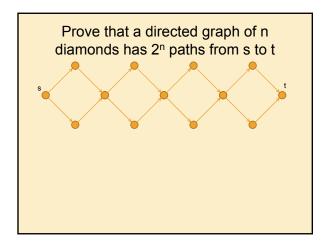


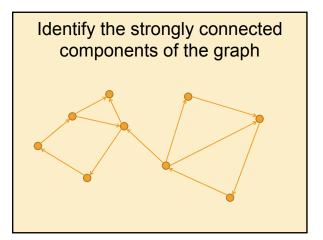
Suppose that E and F are events such that p(E) = 0.7 and p(F) = 0.5. Show that  $p(E \cup F) \ge 0.7$  and  $P(E \cap F) \ge 0.2$ 

Is R reflexive, symmetric, antisymmetric, transitive, if

- $R = \{(x,y) \mid xy \ge 1\}$
- R = {(x,y) | x and y are both negative or both nonnegative}
- $R = \{(x,y) \mid x \ge y^2\}$

## What is the contrapositive of "if all cycles of G have even length, then G is bipartite"





Draw a graph that has degree sequence 1, 2, 3, 3, 3 Draw a graph that has degree sequence 3, 3, 3, 3, 3

How many edges does  $M_{n,m}$  have?

