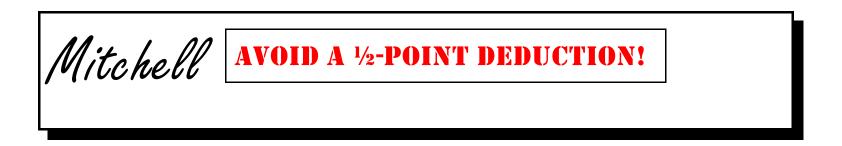
QUIZ!

Use a full sheet of $8\frac{1}{2}\times11^{"}$ paper. (Half sheet? Half credit!)

Put <u>only your last name</u> in the <u>far upper left hand corner</u> of the sheet, where a staple would hit it. It's OK to write BIG, just start in the corner!



Keep answers short! Avoid full sentences. Feel free to abbreviate.

4 questions; 4 minutes; 4 points, plus a ¹/₂-point E.C.

Numbering responses may help you avoid overlooking a question.

You may go ahead and number your paper.

Quiz 13, April 26, 2016 4 minutes; 4 points 1. What would Prolog show for **A** and **B** for the following query? ?- [_,**A**|**B**] = [1,2,3,4].

- 2. <u>Without using append</u>, write head (List, Elem).
- 3. <u>Without using append</u>, write last(List, LastElem).
- 4. What are two predicates that can be used, respectively, to add or remove facts?

EC ½ point: Write g(L,E) that generates each element of L twice: ?- g([a,b],E). E = a ; E = a ; E = b ; E = b ;

false.

Solutions

- What would Prolog show for A and B for the following query?
 ?- [_,A|B] = [1,2,3,4].
 A = 2, B = [3, 4].
- 2. Without using append, write head (List, Elem). head ([H|_], H).
- 3. Without using append, write last(List, LastElem).
 last([X],X).
 last([_|T],X) :- last(T,X).
- 4. What are two predicates that can be used, respectively, to add or remove facts? **assert** and **retract**

EC: Write g(L,E) that generates each element of L twice.
g([H|_],H).
g([H|_],H).
g([_|T],E) :- g(T,E).