

Mar 18: Agenda

- Midterm exam grades.
- Some more prolog examples:
 - ▶ An example useful for the Wumpus world
 - ▶ Finding/evaluating paths declaratively
- Beyond model checking, direct proof:

- ▶ And elimination:

$$\frac{\alpha \wedge \beta}{\alpha}$$

- ▶ Modus ponens:

$$\frac{\alpha \implies \beta, \alpha}{\beta}$$

- ▶ Resolution rule:

$$\frac{\alpha \vee \beta, \gamma \vee \neg\beta}{\alpha \vee \gamma}$$