

# Review and Extension — Size Arguments

Andres Buritica Monroy

## 1 Key concepts for this term

- WLOG
- Big divides small
- Dominant terms
- Graphical reasoning
- Relative growth rates of common functions
- Infinite descent
- Vieta jumping
- Pell equations
- Counting numbers in a range
- Dealing with floor functions

## 2 Homework

Solve and submit any three problems that we didn't cover in class from the problems sections of this term's lectures.