

# Understand

richard p gabriel

# Discover; Explore;

- the heart of doing math is the solitary effort

• manipulate the material

- go around with the problem in your head

• see how things are really reflected

- sometimes you need to lot of “calculation”

• lots of playing around

- broad conjecture
- work on special cases
- remove hypotheses

stu microsystems, inc

# Auger Surface

sun microsystems, inc

- lots of playing around
- sometimes you need to get to "catalysis"
- go around with the probe in your head
- see how things are really related
- work on special cases
- remove impurities
- prosy consequence
- the heart of doing math is the softwary effort

Richard B. Lippert

# Explore; Discover;

# Explore; Invent; Discover

richard P gabriel

- the heart of doing math is the solitary effort

• inventing the mistakes

- go around with the problem in your head

• see how things are really reflected

- sometimes you need to lot of “calculation”

• lots of playing around  
with microsystems, like  
mus

- broad conjecture
- work on special cases
- remove hypotheses