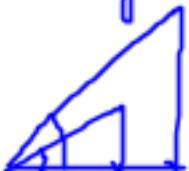


## Day 10

Note: #12 typo  
should be "c=91" instead

### Observations about #1

- For both Pythagorean or Eisenstein triples,  
squaring  $a+bi$  or  $a+bw$  gives you a triple.  
The N-value gives one side and the other sides  
come from the 2 parts after squaring.
- The angle of the larger triangle looks bisected



## Day 10: Questions still rolling in our heads:

- What does it mean when a number has N-value of 1?
- What's up with rotations with  $\sqrt{2}$ ?
- Why do numbers with  $N \neq 1$  still approximate  $\sqrt{n}$ ? Why slower?
- Other dot paper? What other angles are useful?
- Why do powers of i relate to mod 4 thingie?
- Circles, ellipses & hyperbolas. Oh my!