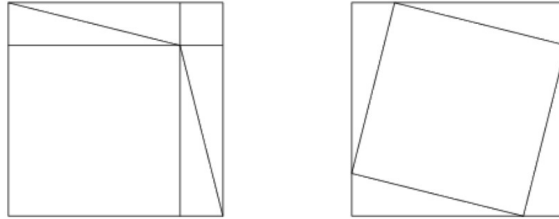


Show all work.

- 1) (3 pts) Write the complex number  $-1 - \sqrt{3}i$  in polar form.
- 2) (2 pts) Assume that the two figures below are scale drawings. What important theorem do the figures prove?



- 3) (3 pts) Suppose 1 inch of rain falls onto a 1 square mile area. How many gallons of water is this?
- 4) (1 pt) The answers to the questions below are bad jokes.
  - a)  $10^{12}$  bulls =?
  - b)  $10^{18}$  mples =?
  - c)  $10^{-18}$  boys =?
  - d)  $10^6$  phones =?
  - e)  $10^{-3}$  pedes =?
- 5) (1 pts) The answers to the questions below are old-school memes from back when the word meme was known only by professional writers.
  - a) What color is Patrick Tribett's face?
  - b) Where does Debra Jackson shop when she has to get all dressed up? Where does she shop when she doesn't have to get all dressed up? Try an image search for this one.
  - c) What word would you use to describe Paula Bean (spelling counts)?
- 6) (1 pt) When traveling at a subsonic speed during the last one hour of hypersleep, which vector of the Romulan Nebula will suffer the wrath of the impenetrable quickening? And, for extra points, how many wraths to the nearest molton? Be specific. This is a real question.