Attendance for Dr. Z.'s MathHistory for Lecture 5 (due no later than 10 minutes after class)

NAME: (print!) Kishan Pote)

Email to DrZlinear@gmail.com right after class

Subject:p5

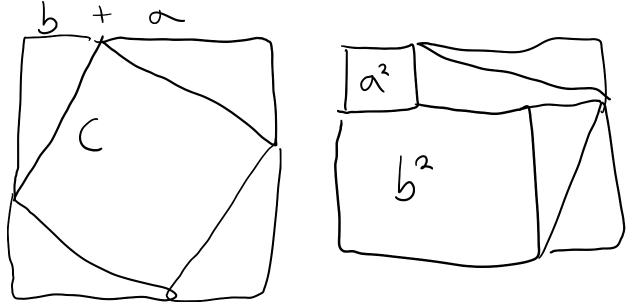
with an attachment p5FirstLast.pdf

Part I: List all the "attendance questions" during the lecture, followed by your answers.

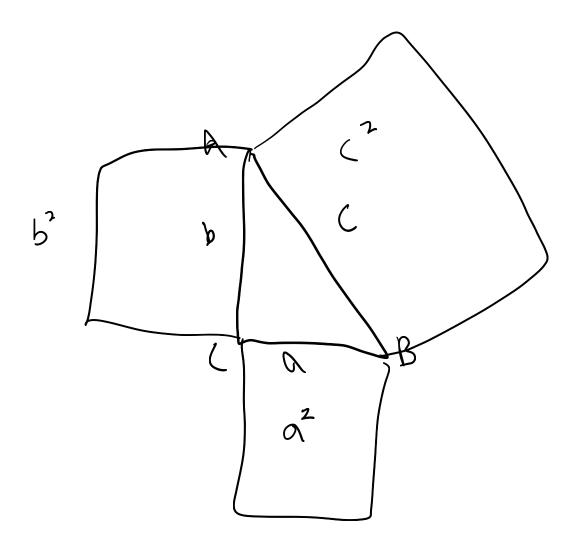
Part II:

1. State the Pythagorean Theorem and prove it in two ways

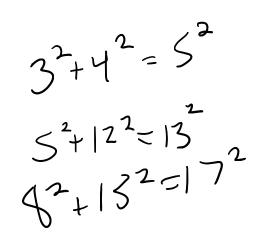
(I) Using the decomposition of an $(a+b) \times (a+b)$ square into an $a \times a$ square, a $b \times b$ square, and four right-angled triangles with sides a, b and hypotheneus c, and comparing it with a decomposition consisting of a $c \times c$ square and four right-angled triangles with sides a, b and hypotheneus c,



(II) Using similar triangles, by taking a right-angled triangle ABC with such that |AC| = b and |BC| = a, and |AB| = c, such that AB is horizontal, calling the projection of C to AB, C', and considering the three triangles ABC, ACC' and BCC'.



2. Find the first three smallest primitive Pythagorean triples.



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