Attendance Quiz

Part I

① Why was Pythagoras not considered a subject in a murder case?

No one knew what his angle was

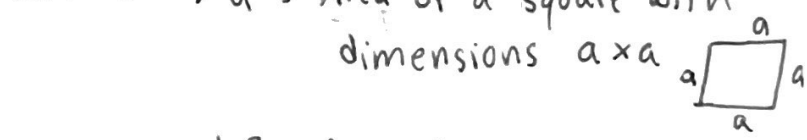
② Complete proof:

$$(m^2-n^2)+(2mn)^2=(m^2+n^2)^2$$
$$m^4-2m^2n^2+n^2+4m^2n^2=(m^2+n^2)^2$$
$$m^4+2m^2n^2+n^4=m^4+2m^2n^2+n^4$$

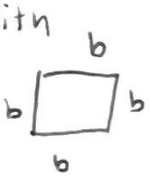
Part II

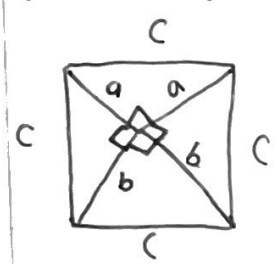
1. $a^2+b^2=c^2$

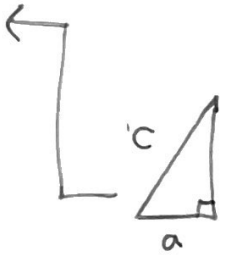
(I) $(a+b)(a+b)=a^2+2ab+b^2 \rightarrow a^2$ = Area of a square with dimensions $a \times a$



b^2 = Area of a square with dimensions $b \times b$







$\rightarrow A=\frac{1}{2}ab$

$4A=2ab$

If you put it together they will be even

(II) Not sure

(2) (3, 4, 5), (5, 12, 13), (8, 15, 17)