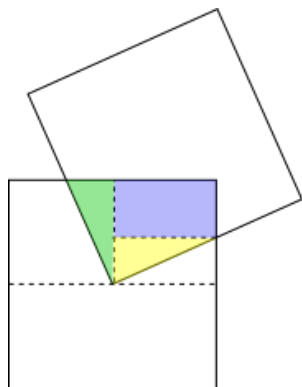


Can you show that, whatever the orientation of the red square, it covers a quarter of the blue square?

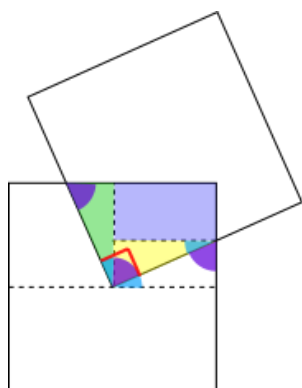
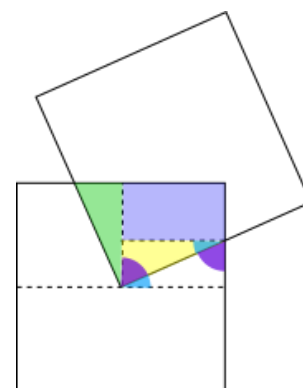


Below are some diagrams which form a proof. Add an explanation to each diagram to complete the proof.



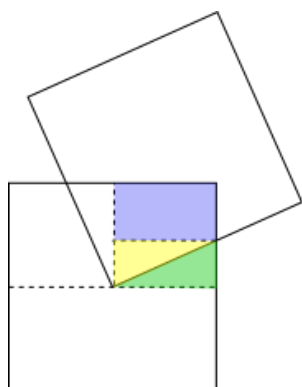
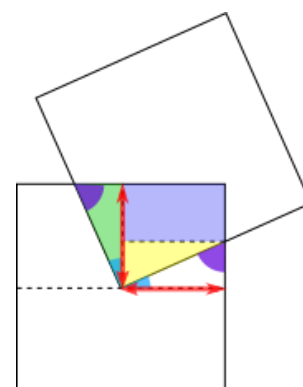
1.

2.



3.

4.



5.