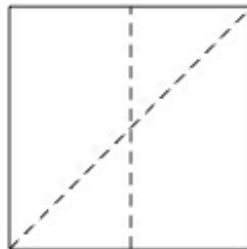


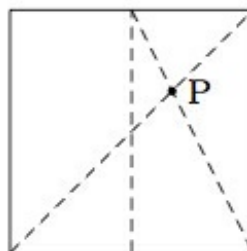
G-SRT Folding a square into thirds

Task

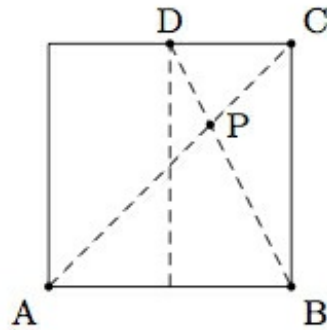
Suppose we take a square piece of paper and fold it in half vertically and diagonally, leaving the creases shown below:



Next a fold is made joining the top of the vertical crease to the bottom right corner, leaving the crease shown below: the point P is the intersection of this new crease with the diagonal.



In the diagram below, some additional points are labelled:



- a. Show that $|AP| = 2|CP|$.
- b. Using part (a), explain how to use the point P in order to fold the square into equal thirds.



G-SRT Folding a square into thirds
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