

Hong Kong Mathematics Olympiad 2014/15

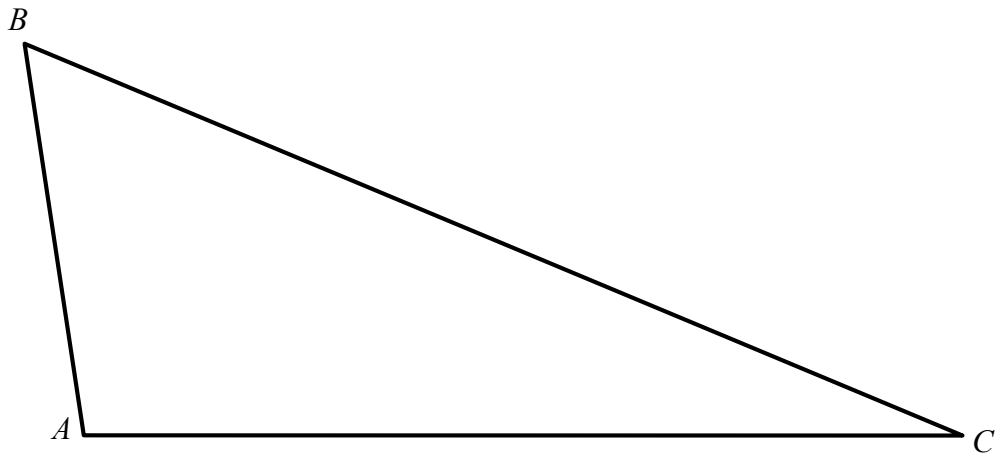
Heat Event (Geometric Construction)

香港数学竞赛 2014/15

初赛（几何作图）

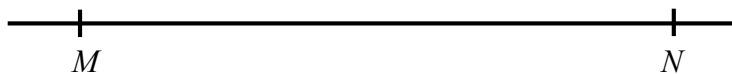
1. Construct an isosceles triangle which has the same base and height to the following triangle.

构造一个与下列三角形的底和高相等的等腰三角形。



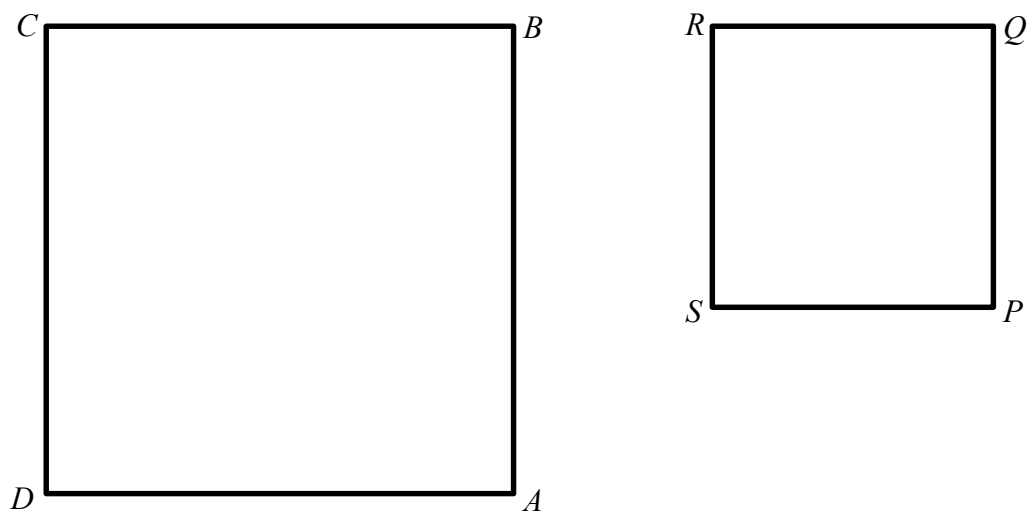
2. Given the following line segment MN represent a unit length, construct a line segment of length $\sqrt{\frac{1}{5}}$.

下图所示为一个单位长度的线段 MN ，试构造一条长度为 $\sqrt{\frac{1}{5}}$ 的线段。



3. Construct a square whose area is equal to the difference between the areas of the following two squares $ABCD$ and $PQRS$.

构造一个面积等于下列两个正方形 $ABCD$ 及 $PQRS$ 面积之差的正方形。



END

完