

Today's Question
Geometry Research Honors

Points D , E , and F are chosen respectively on sides \overline{AB} , \overline{BC} , and \overline{CA} of $\triangle ABC$. If $AD:DB = BE:EC = CF:FA = 1:3$ and the ratio of the area of $\triangle DEF$ to the area of $\triangle ABC$ is expressed as p/q in simplest form, compute $p + q$.