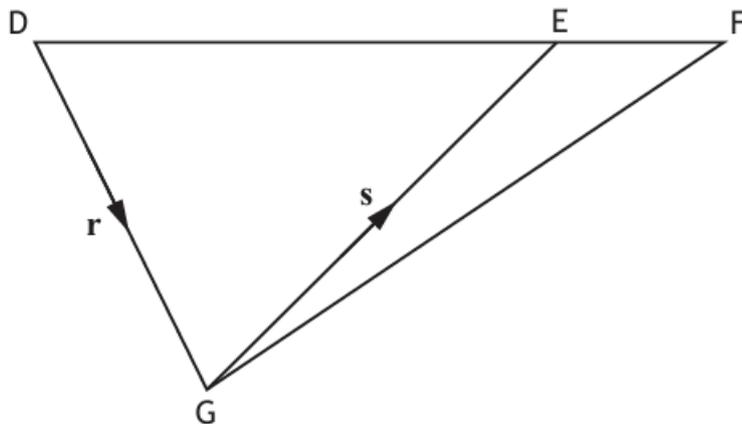


National 5 Maths
SQA 2025 Paper 2
Question 15

In the diagram, \vec{DG} and \vec{GE} are represented by the vectors \mathbf{r} and \mathbf{s} respectively, and $\vec{DE} = 3\vec{EF}$.



Express \vec{GF} in terms of \mathbf{r} and \mathbf{s} .
Give your answer in its simplest form.

2

Answer:

$$\frac{4}{3}\mathbf{s} + \frac{1}{3}\mathbf{r}$$