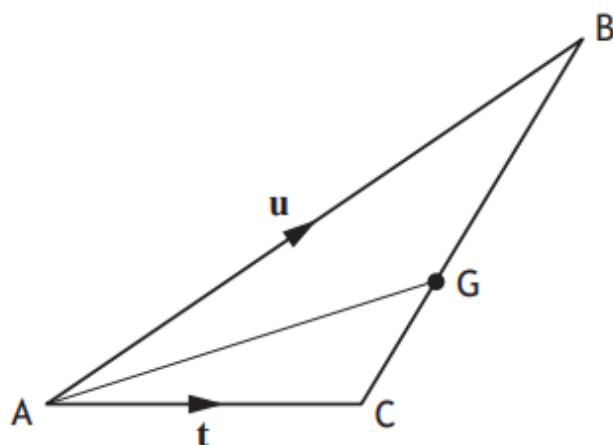


The triangle ABC is shown below



$$\vec{AB} = \mathbf{u} \text{ and } \vec{AC} = \mathbf{t}.$$

G is the point such that $CG = \frac{1}{3}CB$.

Express \vec{AG} in terms of \mathbf{u} and \mathbf{t} .

Give your answer in simplest form.

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Answer:

$$\frac{2}{3}\mathbf{t} + \frac{1}{3}\mathbf{u} \text{ (or equivalent)}$$