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This month's "free sample" is:

4153. *Proposed by Michel Bataille.*

Let $ABCDEFG$ be a regular heptagon inscribed in a circle with radius r . Prove that

$$\frac{1}{AB^3 \cdot BD} - \frac{1}{BD^3 \cdot DG} + \frac{1}{DG^3 \cdot GA} = \frac{1}{r^4}.$$

.....

4153. *Proposé par Michel Bataille.*

Soit $ABCDEFG$ un heptagone régulier inscrit dans un cercle de rayon r . Démontrer que

$$\frac{1}{AB^3 \cdot BD} - \frac{1}{BD^3 \cdot DG} + \frac{1}{DG^3 \cdot GA} = \frac{1}{r^4}.$$

