

Posted on: 17 Feb

Due on: 24 Feb Let *a*, *b*, *c* be nonzero real numbers such that

$$\frac{1}{a} + \frac{1}{b} + \frac{1}{c} = \frac{1}{a+b+c}.$$

Show that

$$\frac{1}{a^{2025}} + \frac{1}{b^{2025}} + \frac{1}{c^{2025}} = \frac{1}{a^{2025} + b^{2025} + c^{2025}}.$$

The problem of the week can be found online at

http://potw.mth.cmich.edu/

Solutions can be mailed to

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with subject line "POTW 667"